

# **DIABETES**

## **LITERATURE INDEX**

**NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES**

**U.S. DEPARTMENT OF  
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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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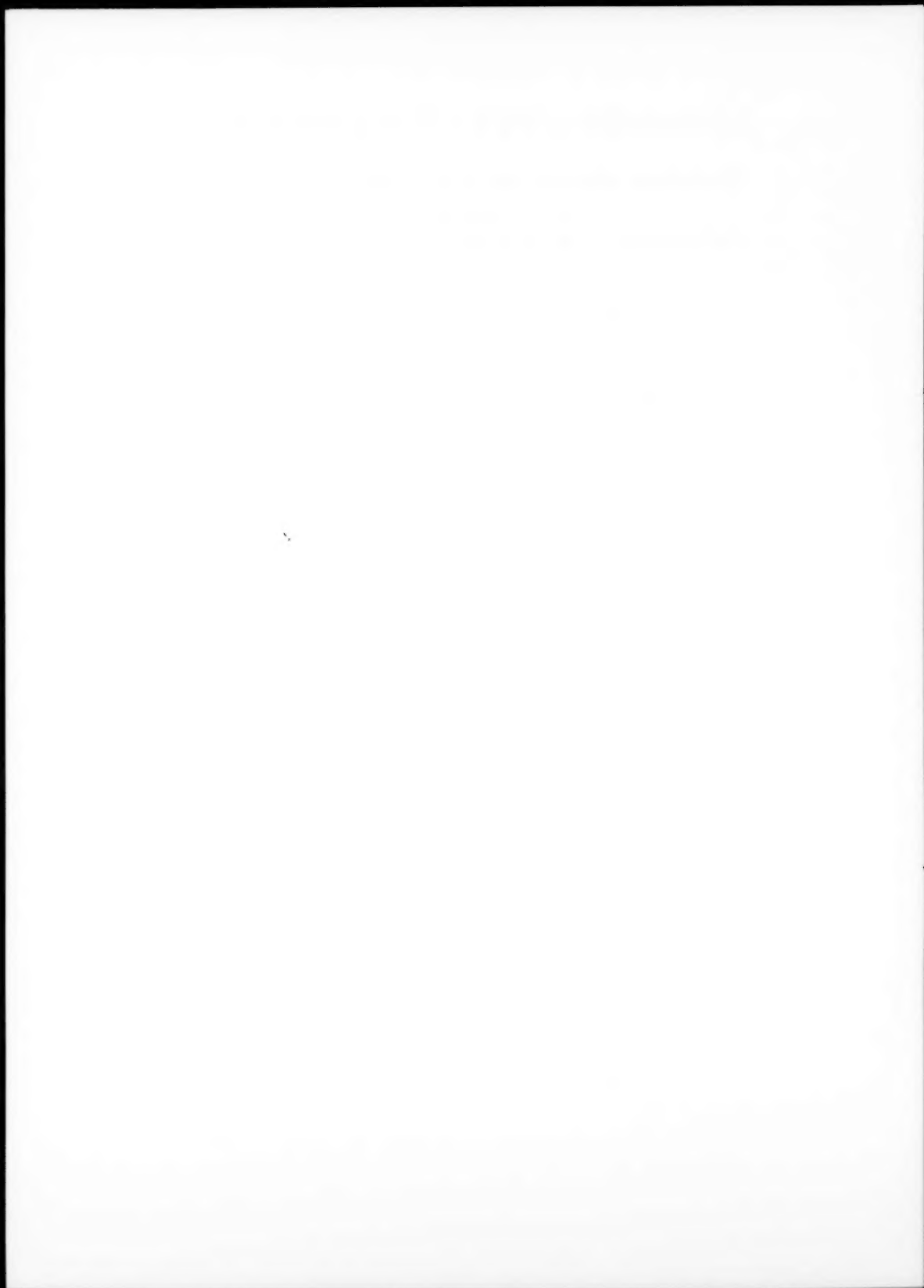
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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office  
Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
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Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
1.A	ISLANDS OF LANGERHANS	1.E.3.6	HYPERGLYCEMIA, ETIOLOGY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOGLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
1.C.2.1	INSULIN, PHYSIOLOGY	1.F.1	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1.C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1.C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1.C.4	HYPERINSULINISM	1.F.3.3	DIABETES, BLOOD
1.C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
1.C.5	INSULIN ANTIBODIES	1.F.4	DIABETES, PHYSIOPATHOLOGY
1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1.C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	1.F.6.4	DIABETIC NEUROPATHIES
1.D.1.1	GLUCAGON, ANALYSIS	1.F.6.5	DIABETIC RETINOPATHY
1.D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
1.D.1.3	GLUCAGON, BLOOD	1.F.6.7	DIABETES PATHOLOGY
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	1.F.6.8	PREGNANCY IN DIABETES
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1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
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1.D.3.3	GLUCAGON, TOXICITY	1.F.7.5	PREDIABETIC STATE
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1.D.4.1	GLUCAGON, DIAGNOSTIC USE	1.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
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## Arrangement of the Hierarchical Index

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1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
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2.E.1.2	SOMATOTROPIN		
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# MEDLARS Terms Included in Hierarchical Index

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ACROMEGALY	2.E.6 PITUITARY DISORDERS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
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PROLACTIN	2.E.1.4 GONADOTROPINS, PITUITARY
PROPYLTHIOURACIL	2.C.2 THYROID ANTAGONISTS
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS
PUBERTY, PRECOCIOUS	2.F.4 GONADAL DISORDERS
RECEPTORS, HORMONE	2.G.2 HORMONES
RELAXIN	2.G.2.5 RELAXIN
SACCHARIN	1.F.9.2.8 SACCHARIN
SECRETIN	2.G.2.1 GASTROINTESTINAL HORMONES
SECRETORY RATE	2.G.6 SECRETORY RATE
SERTOLI CELL TUMOR	2.F.4 GONADAL DISORDERS
SERTOLI CELLS	2.F.2 TESTIS
SEX DIFFERENTIATION DISORDERS	2.F.4 GONADAL DISORDERS
SEX HORMONES	2.F.3 SEX HORMONES
SHEEHAN SYNDROME	2.E.6 PITUITARY DISORDERS
SKIN ULCER	1.F.6.2 DIABETIC ANGIOPATHIES
SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN RELEASING HORMONE	2.E.1.2 SOMATOTROPIN
STANOLONE	2.F.3.1 ANDROGENS
STANZOLOL	2.F.3.1 ANDROGENS
TESTICULAR DISEASES	2.F.4 GONADAL DISORDERS
TESTICULAR FEMINIZATION	2.F.4 GONADAL DISORDERS
TESTICULAR NEOPLASMS	2.F.4 GONADAL DISORDERS
TESTIS	2.F.2 TESTIS
TESTOSTERONE	2.F.3.1 ANDROGENS
THIOCYANATES	2.C.2 THYROID ANTAGONISTS
THIOURACIL	2.C.2 THYROID ANTAGONISTS
THIOUREA	2.C.2 THYROID ANTAGONISTS
THYROID ANTAGONISTS	2.C.2 THYROID ANTAGONISTS
THYROID CRISIS	2.C.3 THYROID DISORDERS
THYROID GLAND	2.C THYROID GLAND
THYROID HORMONES	2.C.1 THYROID HORMONES
THYROIDITIS	2.C.3 THYROID DISORDERS
THYROIDITIS, LYMPHOMATOUS	2.C.3 THYROID DISORDERS
THYRONINE	2.C.1 THYROID HORMONES
THYROTROPIN	2.E.1.3 THYROTROPIN
THYROTROPIN RELEASING HORMONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THYROXINE	2.C.1 THYROID HORMONES
TOLAZAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
TOLBUTAMIDE	1.F.9.4.2 TOLBUTAMIDE
TRIAMCINOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
TRIHODOTHYRONINE	2.C.1 THYROID HORMONES
TURNERS SYNDROME	2.F.4 GONADAL DISORDERS
VASOPRESSIN	2.E.2 PITUITARY HORMONES, POSTERIOR
VIRILISM	2.F.4 GONADAL DISORDERS
WATERHOUSE-FRIDERICHSEN SYNDROME	2.B.5 ADRENAL DISORDERS



## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

### 1.A ISLANDS OF LANGERHANS

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

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**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

**EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION**

**AND INSULIN SECRETION IN RAT PANCREATIC ISLETS.** Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

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DL/76NOV365

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##### 1.D.2.1 GLUCAGON, PHYSIOLOGY

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## 2.E PITUITARY GLAND

### 2.E.1 PITUITARY HORMONES, ANTERIOR

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### 2.F.3.3.2 PROGESTATIONAL HORMONES

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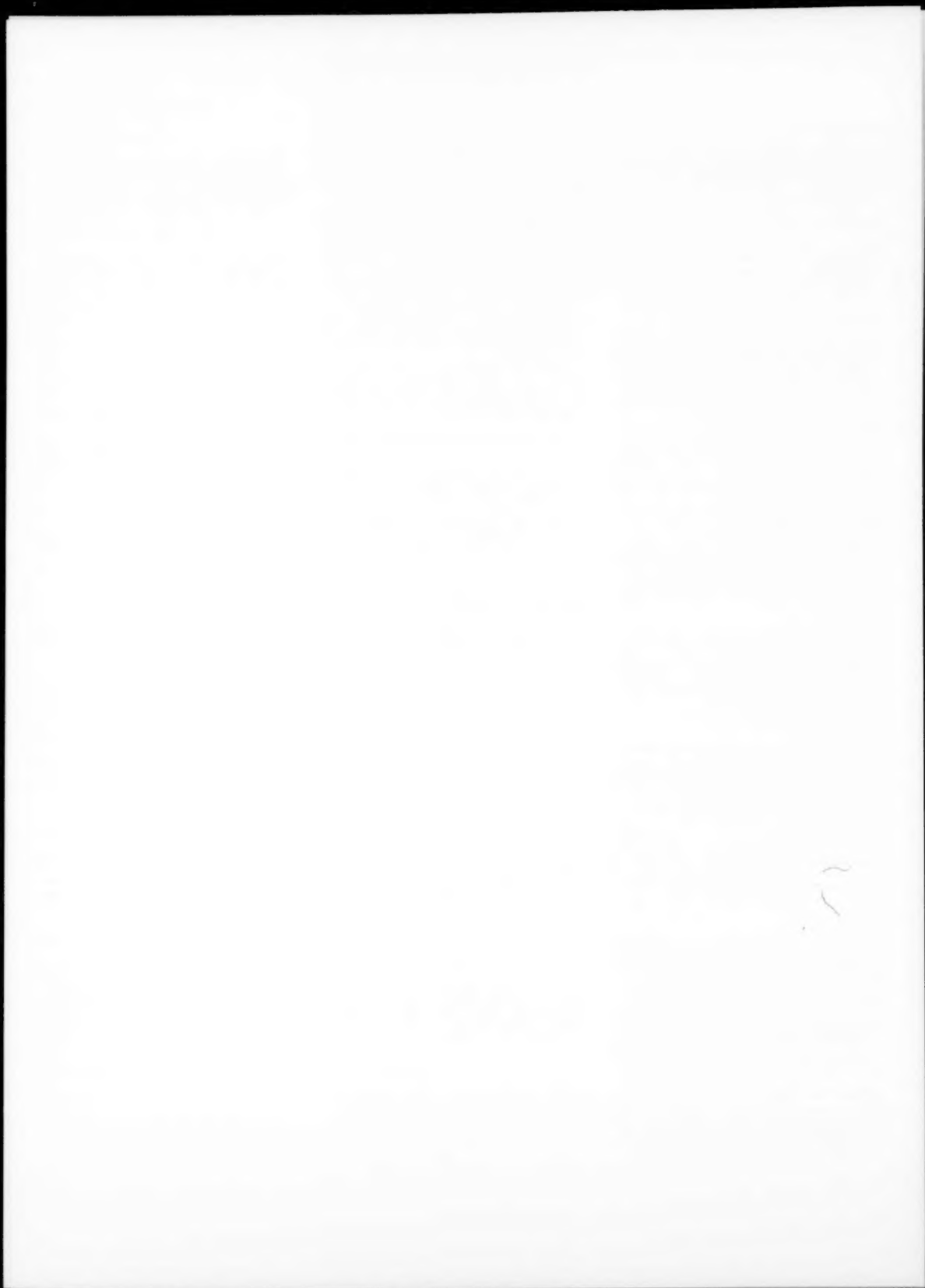
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ANTIMYCIN A (pharmacodynamics); CELL DIFFERENTIATION; CELL FRACTIONATION; FATTY ACIDS, NONESTERIFIED (biosynthesis); GLUCOSE (metabolism); KINETICS; MEMBRANES (ultrastructure); MITOCHONDRIA (metabolism, ultrastructure); NEUROSPORA CRASSA (metabolism, ultrastructure); NEUROSPORA (metabolism); OLIGOMYCIN (pharmacodynamics); OXIDATIVE PHOSPHORYLATION; PHOSPHATIDYL CHOLINE (biosynthesis); PHOSPHATIDYL ETHANOLAMINE (biosynthesis); PHOSPHATIDYL GLYCEROLS (biosynthesis); PHOSPHATIDYL SERINE (biosynthesis); PHOSPHOLIPIDS (biosynthesis); STEROLS (biosynthesis); SUCCINATES (metabolism); SUCROSE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CATTLE (blood); DIURNAL RHYTHM; INSULIN (blood); MALE; SOMATOTROPIN (blood); TIME FACTORS.

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ADULT; ALANINE (blood); BLOOD SUGAR; CATECHOLAMINES (blood); ENERGY METABOLISM; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLYCERIN (blood); HORMONES (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); LACTATES (blood); MALE; PHYSICAL FITNESS; PYRUVATES (blood); SOMATOTROPIN (blood).

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ACROMEGALY (etiology); ADENOMA (complications, diagnosis); ADOLESCENCE; ADRENAL GLAND HYPOFUNCTION (etiology); ADULT; AGED; DIABETES MELLITUS (etiology); DISABILITY EVALUATION; FEMALE; HUMAN; HYPOTHYROIDISM (etiology); MALE; MIDDLE AGE; PITUITARY NEOPLASMS (complications, diagnosis); PROGNOSIS; VISION DISORDERS (etiology); WORK CAPACITY EVALUATION.

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ADULT; BLOOD SUGAR (analysis); CUSHINGS SYNDROME (blood, metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (blood); LIPIDS (metabolism); MALE; MIDDLE AGE.

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COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); FEMALE; FIBRINOLYSIS; GLIBENCLAMIDE (therapeutic use); HUMAN; MALE; PHENFORMIN (therapeutic use).

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ADULT; AGED; ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (complications, drug therapy, metabolism); DOGS; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; POTASSIUM DEFICIENCY (etiology); POTASSIUM (metabolism).

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BINDING SITES; HYDROGEN; KINETICS; LACTATE DEHYDROGENASE (metabolism, antagonists & inhibitors); MODELS, BIOLOGICAL; MYOCARDIUM (enzymology); NAD; PHILIPPINES; PROTEIN BINDING; PYRUVATES (metabolism); SPECTROMETRY, FLUORESCENCE; TIME FACTORS.

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ANIMAL EXPERIMENTS; CARDIOLIPINS (metabolism); DIETARY FATS; ERUCIC ACIDS (toxicity); FATTY ACIDS, UNSATURATED (toxicity); FEMALE; FLAVOPROTEINS (metabolism); GROWTH (drug effects); HEART VENTRICLE (drug effects); HEART (drug effects); INTESTINAL ABSORPTION (drug effects); KIDNEY CONCENTRATING ABILITY (drug effects); LIPOIDOSIS (chemically induced); MALE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDITIS (chemically induced, pathology); MYOCARDIUM (metabolism, pathology); OILS (toxicity); RATS; REVIEW.

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NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESE AND

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[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY L-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

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COMPARATIVE STUDY; DERMATOMYOSITIS (metabolism); DIABETES MELLITUS (metabolism); HUMAN; INDOLEACETIC ACIDS (analysis); RAYNAUDS DISEASE (metabolism); SCLERODERMA, CIRCUMSCRIBED (metabolism); SKIN DISEASES (metabolism); TRYPTAMINES (analysis).

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ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET. Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

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DIFFUSION; ELECTRIC CONDUCTIVITY; LIPIDS; MATHEMATICS; MEMBRANE POTENTIALS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; THERMODYNAMICS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

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ANIMAL EXPERIMENTS; ANTIMYCIN A (pharmacodynamics); BIOLOGICAL TRANSPORT; ACTIVE; CALCIUM (metabolism); CARBOXYLIC ACIDS (metabolism, pharmacodynamics); ELECTRON TRANSPORT; HYDROGEN (metabolism); HYDROXYBUTYRATES (metabolism); IN VITRO; KINETICS; MALE; MITOCHONDRIA, LIVER (metabolism, drug effects); OXYGEN CONSUMPTION (drug effects); PHILIPPINES; RATS; ROTENONE (pharmacodynamics); SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

## Bransome ED Jr

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

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CHROMATOGRAPHY, GAS; FLUOROACETATES (analysis); HYPOGLYCEMIC AGENTS (analysis); MASS FRAGMENTOGRAPHY; SPECTRUM ANALYSIS, MASS; SULFONYLUREA COMPOUNDS (analysis).

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SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Alpert LC, Brawer JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

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ADIPOSE TISSUE (metabolism); ADOLESCENCE; ADULT; ANTHROPOMETRY; APPETITE DEPRESSANTS (therapeutic use); BODY CONSTITUTION; BODY WEIGHT; CADAVER; CHILD; CHILD, PRESCHOOL; EXERCISE THERAPY; FEMALE; HEALTH EDUCATION; HUMAN; INFANT; INFANT, NEWBORN; MALE; MIDDLE AGE; NUTRITION; OBESITY (physiopathology, etiology, therapy); REVIEW; SKINFOLD THICKNESS; SOCIOECONOMIC FACTORS.

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PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

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ADMINISTRATION, ORAL; BIGUANIDES (administration & dosage); BLOOD SUGAR; DIABETES MELLITUS (drug therapy); DIABETIC DIET; GLYCOSURIA (diagnosis); HUMAN; SULFONYLUREA COMPOUNDS (administration & dosage); TIME FACTORS.

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ANIMAL EXPERIMENTS; CARBOHYDRATES (metabolism); CARBON DIOXIDE (metabolism); CATTLE; CEREBRAL CORTEX (blood supply); ENERGY METABOLISM; GLYCOLYSIS; MICROCIRCULATION (metabolism); OXYGEN CONSUMPTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ANIMAL EXPERIMENTS (analysis); FOOD POISONING (etiology, metabolism, occurrence); FRUIT (poisoning); GLUCONEOGENESIS; HUMAN; HYPOGLYCEMIA (etiology, metabolism); JAMAICA; RATS; TOXINS; VOMITING (etiology).

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ALCOHOL, ETHYL (metabolism, blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBON DIOXIDE (metabolism); CARBON ISOTOPES; CORN (metabolism); ENGLISH ABSTRACT; MALE; RATS.

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AMMONIUM COMPOUNDS (metabolism); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); ENERGY TRANSFER; LEAD (metabolism); MAGNESIUM (metabolism); MEMBRANES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MITOCHONDRIAL CONTRACTION; MITOCHONDRIAL SWELLING; MODELS, BIOLOGICAL; MYOCARDIUM; OXIDATIVE PHOSPHORYLATION; PHILIPPINES; POTASSIUM (metabolism); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; ZINC (metabolism).

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CLIMATE; COTTONSEED (analysis); DIETARY FATS (analysis); FATS, UNSATURATED (analysis); FATTY ACIDS (analysis); FATTY ACIDS, UNSATURATED (analysis); HELIANTHUS; LECITHINS (analysis); LIPIDS (analysis); MEAT (analysis); OILS (analysis); SAFFLOWER OIL (analysis); SEEDS (analysis); SESAME OIL (analysis); SOY BEANS; SPECIES SPECIFICITY; TEA; WHEAT.

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ADULT; BLOOD SUGAR (analysis); CATECHOLAMINES (urine); CLINICAL RESEARCH; COMPARATIVE STUDY; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROXYBUTYRATES (blood); INSULIN (blood); LIPID MOBILIZATION; LIPIDS (metabolism); MALE; METABOLISM; QUADRIPLEGIA (metabolism); SYMPATHETIC NERVOUS SYSTEM (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); BRAIN (metabolism); COMPARATIVE STUDY; ENGLISH ABSTRACT; EPILEPSY (metabolism, etiology); EPILEPSY, TRAUMATIC (metabolism); FEMALE; GLUCOSE (cerebrospinal fluid); GLYCOPROTEINS (metabolism); HUMAN; INFLAMMATION (complications); MALE; MIDDLE AGE; OXIDATION-REDUCTION.

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AMINO ACIDS (physiology); AMOBARBITAL (pharmacodynamics); AMPHETAMINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BRAIN (drug effects, metabolism); CEREBROSIDES (physiology); CHOLESTEROL (physiology); EPINEPHRINE (pharmacodynamics); FASTING; FATTY ACIDS (physiology); GLUCOSE (metabolism); HYDERGINE (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (pharmacodynamics); LIDOCAINE (pharmacodynamics); LIPIDS (pharmacodynamics, physiology); MICE; MODELS, BIOLOGICAL; PHOSPHOLIPIDS (physiology).

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AMYLASE (blood); BLOOD SUGAR (metabolism); CASE REPORT; DIABETES MELLITUS (surgery); GLUCOSE TOLERANCE TEST; GRAFT REJECTION; HUMAN; INSULIN (blood); LIGATION; MALE; MIDDLE AGE; PANCREAS (transplantation); PANCREATIC DUCTS (surgery); TRANSPLANTATION, ALLOGENEIC.

### Brzozowski Z

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

AMIDES (chemical synthesis); ANIMAL EXPERIMENTS (analysis); CHEMISTRY; ENGLISH ABSTRACT; HYPOGLYCEMIC AGENTS (chemical synthesis); PYRAZOLES (chemical synthesis); RATS; SULFONYLUREA COMPOUNDS (chemical synthesis).

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INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

Buono F [THERAPY OF ALCOHOLISM] Bueno F, Mezey E *Internist (Berlin)* 17: 362-9, Jul 76 (Ger) DL/76NOV82

ACUTE DISEASE; ALCOHOLIC INTOXICATION; ALCOHOLISM (complications, drug therapy, metabolism, therapy); AVITAMINOSIS (complications); CHRONIC DISEASE; CONVULSIONS (complications); DELIRIUM TREMENS (complications); DISULFIRAM (therapeutic use); DRUG WITHDRAWAL SYMPTOMS; DRUGS (metabolism); HALLUCINATIONS (complications); HUMAN; HYPERLIPEMIA (complications); HYPOGLYCEMIA

(complications); PSYCHOTHERAPY; THROMBOPENIA (complications); URIC ACID (metabolism).

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THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spillacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

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**PRINCIPLES OF DIET FOR DIABETICS.** Chisholm D *Aust Fam Physician* 5: 349-50, Apr 76 (Eng) DL/76NOV344  
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**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE**

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LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

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ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; ENVIRONMENT; LIPIDS (metabolism); LIVER GLYCOGEN (metabolism); LIZARDS (metabolism); MESENTERY (metabolism); SEASONS; SENEGAL.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; ENZYME ACTIVATION; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); HEART RATE (drug effects); HEART (drug effects); IN VITRO; MICE; MYOCARDIUM (analysis); RESERPINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE. Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

ADENINE NUCLEOTIDES (analysis); AGE FACTORS; ANIMAL EXPERIMENTS (analysis); BUTYRATES (pharmacodynamics); FATTY ACIDS (pharmacodynamics); FRUCTOSEBIPHOSPHATE ALDOLASE (analysis); GALACTOSE (metabolism); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSE (analysis); IN VITRO; INSULIN (pharmacodynamics); LACTATE

DEHYDROGENASE (analysis); LACTATES (metabolism); LIVER (analysis, drug effects, enzymology, growth & development, metabolism); OXYGEN CONSUMPTION; PROPIONATES (metabolism); SHEEP.

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ACIDOSIS, DIABETIC (complications); ADOLESCENCE; CASE REPORT; FEMALE; HEMORRHAGE, GASTROINTESTINAL (etiology); HUMAN; KETOSIS, DIABETIC (complications); MAGNESIUM DEFICIENCY (etiology); MEDIASTINAL EMPHYSEMA (etiology); NERVOUS SYSTEM DISEASES (etiology); SEPTICEMIA (etiology).

# Clarke P

EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE. Hope-Gill HF, Kissebah AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

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AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; CARBAMYL PHOSPHATE SYNTHASE (AMMONIA) (metabolism, isolation & purification); CATTLE; ESCHERICHIA COLI (enzymology); FETUS; MACROMOLECULAR SYSTEMS; MITOCHONDRIA, LIVER (enzymology, metabolism); MOLECULAR WEIGHT; PHOSPHOTRANSFERASES, ATP (metabolism); PROTEIN CONFORMATION; RATS; SPECIES SPECIFICITY; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; UREA (metabolism).

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ATHEROSCLEROSIS IN OLD WORLD MONKEYS. Clarkson TB, Hamm TE, Bullock BC, Lehnner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

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**BLOOD SUGAR (analysis); DIABETIC COMA (drug therapy); HUMAN; HYDROXYBUTYRATES (blood); INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, blood, therapeutic use); TIME FACTORS.**

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**LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR.** Ames AC, Cobbold S, Maddock J *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

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**ANIMAL EXPERIMENTS (analysis); DIABETIC RETINOPATHY; EYE NEOPLASMS; FEMALE; GREAT BRITAIN; HUMAN; MACULAR DEGENERATION; MALE; RETINAL DEGENERATION; RETINAL DETACHMENT; RETINAL DISEASES (etiology); RETINOBLASTOMA; RETROLANTAL FIBROPLASIA; REVIEW; SICKLE CELL TRAIT (complications); UNITED STATES.**

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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); GLUCAGON SYNTHETASE (metabolism); HISTONE KINASE (metabolism); INSULIN (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHORYLASE KINASE (metabolism); PROTEIN KINASE (metabolism).**

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**ADULT; AGED; ANIMAL EXPERIMENTS (analysis); ARTERIOVENOUS SHUNT; SURGICAL; BLINDNESS (complications); BLOOD VESSEL PROSTHESIS; CAROTID ARTERIES (transplantation); CATTLE; DIABETIC NEPHROPATHIES (complications, mortality, therapy); DIABETIC RETINOPATHY (complications); FEMALE; HEMODIALYSIS (adverse effects); HOSPITALIZATION; HUMAN; KIDNEY FAILURE, CHRONIC (mortality, therapy); MALE; MIDDLE AGE; MINNESOTA; PERICARDITIS (etiology); PROGNOSIS; TRANSPLANTATION, HETEROLOGOUS.**

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**AGED; AGING; ATHEROSCLEROSIS (metabolism); BLOOD PROTEINS (metabolism, analysis); FEMALE; HUMAN; LIPIDS (metabolism, blood); MALE.**

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**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E,

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**ADULT; BLOOD SUGAR (metabolism); CORTICOTROPIN (blood); FATTY ACIDS, NONESTERIFIED (blood); FSH (blood); GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); LH (blood); MALE; PITUITARY GLAND (drug effects, physiology); PROLACTIN (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (blood); THYROTROPIN (blood).**

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**EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS.** Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

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**DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE.** Moravec J, Corsin A, Hatt PY *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

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**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

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**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTAGLANDINS.** Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

**ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis, metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENTEROTOXINS (pharmacodynamics); GLUCOSE (metabolism, analysis, antagonists & inhibitors); INTESTINAL ABSORPTION (drug effects); INTESTINE, SMALL (drug effects); ISOPROTERENOL (pharmacodynamics); JEJUNUM (drug effects, metabolism, cytology); MALE; PERFUSION (methods); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); PROSTAGLANDINS (pharmacodynamics); RATS; SODIUM (metabolism); WATER (metabolism).**

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**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Couston DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

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ADIPOSE TISSUE (cytology, enzymology); ANIMAL EXPERIMENTS (analysis); ENDOTHELIUM (cytology, enzymology); FATTY ACIDS (blood); GLUCAGON (blood, physiology); HORMONES (physiology); HUMAN; INSULIN (blood, physiology); LIPOPROTEIN LIPASE (metabolism); REVIEW; TRIGLYCERIDES (blood).

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ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; FROGS; GLUCOSE (metabolism); INTESTINAL ABSORPTION (drug effects); INTESTINAL MUCOSA (metabolism); KINETICS; LITHIUM (metabolism); MAGNESIUM (metabolism); MANNITOL (metabolism); METHYLGLUCOSIDES (metabolism); MONOGRAPH; OUABAIN (pharmacodynamics); PHENYLALANINE (metabolism); PHILIPPINES; POTASSIUM (metabolism); RANA PIPIENS; SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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CARBON DIOXIDE (metabolism); CARBON RADIOISOTOPES; CHILD; CHILD, PRESCHOOL; FATTY LIVER (metabolism); GALACTOSE (metabolism); GLUCOSE (metabolism); HUMAN; INDIA; INFANT; LIVER CIRRHOSIS (metabolism, familial & genetic); SYNDROME.

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[A CASE OF MUCORMYCOSIS] Daele JJ, De Vos JL *Acta Otorhinolaryngol Belg* 29: 1030-40, 1975 (Fre) DL/76NOV294

ADULT; AMPHOTERICIN B (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); EYE (surgery); HUMAN; MALE; MUCORALES (isolation & purification); MUCORMYCOSIS (complications, pathology, therapy); NECROSIS (etiology); PALATE.

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BLOOD SUGAR (analysis); CHEMISTRY (education); HUMAN; SPECTROPHOTOMETRY (methods).

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EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA. Daly MM *Am J Physiol* 230: 30-3, Jan 76 (Eng) \*DL/76NOV624

AGING; ANIMAL EXPERIMENTS; AORTA (metabolism, analysis); CARBON DIOXIDE (metabolism); COMPARATIVE STUDY; DNA (metabolism); GLUCOSE (metabolism); HYPERTENSION (metabolism); LACTATES (metabolism); LIPIDS (metabolism); MALE; ORGAN WEIGHT; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADULT; AGED; CORONARY DISEASE (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GASTROINTESTINAL DISEASES (complications); HUMAN; HYPERTENSION

(complications); LUNG DISEASES (complications); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications); RHEUMATIC HEART DISEASE (complications); UROLOGIC DISEASES (complications).

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EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [14C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (chemically induced, metabolism); GLUCOSE (metabolism); GLYCOGEN (biosynthesis); HEXOSEPHOSPHATES (biosynthesis); IMMUNE SERUMS (pharmacodynamics); IN VITRO; INSULIN ANTIBODIES; INSULIN (physiology); MALE; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); RATS; STREPTOZOTOCIN; URIDINE DIPHOSPHATE GLUCOSE (biosynthesis); URIDINE DIPHOSPHATE SUGARS (biosynthesis).

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SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

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## Davis SW

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

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CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR *Comp Biochem Physiol [A]* 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CHICKENS; GLUCONEOGENESIS; GLYCERIN (metabolism); KETO ACIDS (metabolism); LACTATES (metabolism); LIVER GLYCOGEN (metabolism); PYRUVATES (metabolism); STARVATION.



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CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-02 AT 11 ATA. De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

ANIMAL EXPERIMENTS; ATMOSPHERIC PRESSURE; AVIATION MEDICINE; BLOOD PROTEINS; BLOOD SUGAR (analysis); EMBOLISM, AIR (blood); HEMATOCRIT; MORPHINE (administration & dosage, adverse effects); POTASSIUM (blood); RATS.

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MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESE ZUCKER RATS. Deb S, Martin RJ, Hershberger TV *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

ANIMAL EXPERIMENTS; BODY WEIGHT; DIET, DIETARY FATS; DIETARY PROTEINS; ENERGY METABOLISM; MALE; MINERALS; NITROGEN (metabolism); OBESITY (metabolism); PROTEINS (metabolism); RATS; THINNESS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

ANIMAL EXPERIMENTS; DIETARY CARBOHYDRATES (metabolism); ELECTROPHYSIOLOGY; FASTING; GALACTOSE (metabolism); GLUCOSE (metabolism); HAMSTERS; INTESTINAL ABSORPTION; JEJUNUM (metabolism, physiology); KINETICS; MALE; METHIONINE (metabolism); METHYLGLUCOSIDES (metabolism); METHYLGALACTOSIDES (metabolism); RATS; STARVATION (metabolism); VALINE (metabolism).

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[COMBINATION OF ORAL HYPOLYCEMIC AGENTS] Decoulx M *Lille Med* 21 spec no: 263-5, 1976 (Fre) DL/76NOV170

ADULT; BIGUANIDES (administration & dosage, therapeutic use); DIABETES MELLITUS (drug therapy); DRUG THERAPY, COMBINATION; HUMAN; SULFONAMIDES (administration & dosage, therapeutic use).

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SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Defetos LJ, Lorenzi M, Bohanon N, Tsalkian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

ADULT; EDTA (pharmacodynamics); FEMALE; GLUCAGON (blood); HUMAN; HYPERPARATHYROIDISM (metabolism); INFUSIONS, PARENTERAL; MALE; MIDDLE AGE; PARATHYROID HORMONE (blood, metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Holz VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

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[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

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[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL.)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Fineda Cuevas G *Am Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

BLOOD SUGAR (metabolism); CHILD, PRESCHOOL; COMPARATIVE STUDY; DIPHENYLHYDANTOIN (therapeutic use); ENGLISH ABSTRACT; EPILEPSY (blood, drug therapy); FEMALE; HUMAN; INSULIN (blood, secretion); MALE; PANCREAS (drug effects, secretion); SECRETORY RATE; STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

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THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

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POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, DeMontis MG, Olinas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

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PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

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INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Wittine MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

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ANIMAL EXPERIMENTS; CYTOPLASMIC GRANULES (ultrastructure); ELECTRICITY; ENZYME ACTIVATION; FISHES (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (analysis, metabolism); HISTOCYTOCHEMISTRY; POLYSACCHARIDES (analysis); RECEPTORS, NEURAL (enzymology, ultrastructure); 1,4 ALPHA-GLUCAN BRANCHING ENZYME (metabolism).

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ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

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CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

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[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

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EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOLYCEMIA AND LYSINE-VASOPRES-



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ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

ADOLESCENCE; ADULT; CATARACT (chemically induced); CHILD; CREATININE (blood); CUSHINGS SYNDROME (chemically induced); DIABETES MELLITUS (complications); FEMALE; FEMUR HEAD NECROSIS (chemically induced); GRAFT REJECTION; GROWTH DISORDERS (chemically induced); HUMAN; HYPERTENSION (chemically induced); KIDNEY (transplantation); MALE; MIDDLE AGE; OBESITY (chemically induced); PREDNISONE (administration & dosage, adverse effects, therapeutic use); TRANSPLANTATION, ALLOGENEIC.

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[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT] Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrilu F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

ACUTE DISEASE; ADULT; AGED; DRUG EVALUATION; ENGLISH ABSTRACT; GLUCOSE (therapeutic use); HUMAN; INSULIN (therapeutic use); MIDDLE AGE; MYOCARDIAL INFARCT (drug therapy); POTASSIUM (therapeutic use); PROPRANOLOL (therapeutic use).

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CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS. Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

BASAL METABOLISM; CAPILLARIES (pathology); CONJUNCTIVA (blood supply); DIABETES MELLITUS (metabolism, pathology); HUMAN; SKIN (blood supply); VASOMOTOR SYSTEM (pathology).

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INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

# Dobrzanski T

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzanski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

ALCOHOLISM (blood); BLOOD SUGAR; CHLORMETHIAZOLE (pharmacodynamics); COMPARATIVE STUDY; CORTICOTROPIN (blood); DELIRIUM TREMENS (blood); ENGLISH ABSTRACT; HALLUCINATIONS (blood); HALOPERIDOL (pharmacodynamics); HUMAN; INSULIN (blood); MALE; PSYCHOSES, ALCOHOLIC (blood); RESERPINE (pharmacodynamics); SOMATOTROPIN (blood); THYROXINE (blood); TIME FACTORS; 17-HYDROXYCORTICOSTEROIDS (blood).

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[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanlov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

ADENOSINE TRIPHOSPHATASE (metabolism); AMMONIUM COMPOUNDS (pharmacodynamics); ANIMAL EXPERIMENTS; ANTIMYCIN A (pharmacodynamics); CALCIUM (pharmacodynamics); CYANIDES (pharmacodynamics); ENGLISH ABSTRACT; MEMBRANES (drug effects); MITOCHONDRIA (ultrastructure); MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL SWELLING (drug effects); POTASSIUM (metabolism, pharmacodynamics); RATS; ROTENONE (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

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PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

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EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO. Dominguez MC, Herrera E *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; EPIDIDYMI (metabolism); EPINEPHRINE (pharmacodynamics); GLYCERIN (biosynthesis); IN VITRO; MALE; RATS; STIMULATION, CHEMICAL.

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DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED. Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

BIOPSY; CASE REPORT; DIABETES MELLITUS (complications, rehabilitation); DIABETIC NEUROPATHIES (pathology); DOSE-RESPONSE RELATIONSHIP, DRUG; ELECTROMYOGRAPHY; FEMALE; HUMAN; INSULIN (administration & dosage); LEG (innervation); MALE; MIDDLE AGE; MOTOR NEURONS (physiopathology); MUSCLES (innervation, pathology); MYOTONIA ATROPHICA (pathology, physiopathology); NEURAL CONDUCTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedola N, Cabarro A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

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ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY. Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

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SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkuka J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

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MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF,

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A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY. Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

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# Dreux C

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphilis (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

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THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilboe DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

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ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (diagnosis); DIABETIC NEPHROPATHIES (diagnosis); FEMALE; GLOMERULAR FILTRATION RATE; GLOMERULONEPHRITIS (diagnosis); HUMAN; MALE; YTTRIUM RADIOISOTOPES (diagnostic use).

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CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

ANIMAL EXPERIMENTS; CELLS, CULTURED; DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG INTERACTIONS; ESTRADIOL (pharmacodynamics); FEMALE; MALE; PITUITARY GLAND (secretion); PITUITARY GLAND, ANTERIOR (secretion, cytology); PROLACTIN (secretion, blood); PROPYLTHIOURACIL (pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); THYROTROPIN-RELEASING HORMONE (pharmacodynamics); THYROTROPIN (secretion, blood); THYROXINE (pharmacodynamics).

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[DRUGS INDUCED HYPOGLYCEMIA] Dry J, Pradaliar A. *Sem Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245  
ADULT; AGED; CHILD; PRESCHOOL;  
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(chemically induced); INFANT; INSULIN  
(adverse effects, therapeutic use); MALE;  
MIDDLE AGE; SULFONYLUREA  
COMPOUNDS (adverse effects, therapeutic use).

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GASTROINTESTINAL SOMATOSTATIN CELLS  
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ANENCEPHALUS; FETUS (analysis);  
FLUORESCENT ANTIBODY TECHNIC;  
GASTROINTESTINAL HORMONES;  
GASTROINTESTINAL SYSTEM (analysis);  
HUMAN; SOMATOTROPIN RELEASE  
INHIBITING HORMONE (analysis, physiology).

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RAISED SERUM ALPHA-2 GLOBULINS AS AN  
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RY HEART DISEASE. Ducimetiere P, Warnet  
JM, Richard JL. *J Chronic Dis* 29: 423-9, Jul 76  
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ADULT; ALPHA GLOBULINS (analysis); BETA  
GLOBULINS (analysis); BLOOD PRESSURE;  
BLOOD PROTEIN ELECTROPHORESIS;  
CHOLESTEROL (blood); CORONARY  
DISEASE (blood, occurrence); DIABETES  
MELLITUS (blood); FRANCE; HUMAN; MALE;  
MIDDLE AGE; MYOCARDIAL INFARCT  
(blood); PROBABILITY; PROSPECTIVE  
STUDIES; RETROSPECTIVE STUDIES; RISK.

### Duckworth WC

INHIBITION OF INSULIN DEGRADATION BY  
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TY. Burghen G, Duckworth WC, Kitabchi AE,  
Solomon SS, Poffenbarger PL. *J Clin Invest* 57:  
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DIABETES MELLITUS. A REPORT FROM THE  
AUSTRALIAN GENERAL PRACTITIONER  
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ADOLESCENCE; ADULT; AGE FACTORS;  
AGED; AUSTRALIA; CHILD; CHILD;  
PRESCHOOL; DIABETES MELLITUS  
(occurrence); FEMALE; HUMAN; MALE;  
MIDDLE AGE; SEASONS; SEX FACTORS.

### Durand D

[EARLY EFFECTS OF GROWTH HORMONE  
ON BLOOD AND URINARY INORGANIC  
PHOSPHORUS IN THE RAT (AUTHORS  
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perimentia* 32: 120-2, 15 Jan 76 (Fre)  
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ANIMAL EXPERIMENTS; CALCIUM (blood);  
ENGLISH ABSTRACT; PHOSPHATES (blood);  
PHOSPHATES, INORGANIC (blood, urine);  
RATS; SOMATOTROPIN (pharmacodynamics).

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A STUDY OF GLUCOSE TOLERANCE, SERUM  
TRANSAMINASE AND LIPIDS IN WOMEN  
USING DEPOT-MEDROXYPROGESTERONE  
ACETATE AND A COMBINATION-TYPE  
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ADULT; AGE FACTORS; DIABETES  
MELLITUS (complications); DIABETIC  
ANGIOPATHIES (complications); ENGLISH  
ABSTRACT; FEMALE; GOUT (etiology);  
HUMAN; MALE; MIDDLE AGE; SEX  
FACTORS; URIC ACID (blood).

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SECRETION. Thorner MO, Wass JA, Rees LH,  
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ANIMAL EXPERIMENTS (analysis);  
CHLORPROMAZINE (pharmacodynamics);  
FEMALE; GLUCOSE (pharmacodynamics); IN  
VITRO; INSULIN (analysis, secretion); ISLANDS  
OF LANGERHANS (drug effects, secretion);  
PHENYLBUTAZONE (pharmacodynamics);  
RATS; SALICYLATES (pharmacodynamics);  
STIMULATION, CHEMICAL; TOLBUTAMIDE  
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(pharmacodynamics); ASPARTIC ACID  
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ENGLISH ABSTRACT; MALE; NITROGEN  
(metabolism); RATS; SOMATOTROPIN  
(pharmacodynamics).

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(metabolism); FATTY ACIDS (metabolism);  
HUMAN; ISOMERISM; ISOTOPE LABELING  
(methods); LIPIDS (metabolism, blood); MALE;  
OLEIC ACIDS (metabolism); PHOSPHATIDYL  
CHOLINE (blood); PHOSPHATIDYL  
ETHANOLAMINE (blood); PHOSPHATIDYL  
INOSITOL (blood); PHOSPHATIDYL SERINE  
(blood); PHOSPHOLIPIDS (blood).

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DIABETES MELLITUS (pathology);  
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(pathology); FEMALE; HUMAN; PLACENTA  
(blood supply, pathology); PREGNANCY IN  
DIABETES (pathology); PREGNANCY.

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ADOLESCENCE; ADRENAL CORTEX  
(physiopathology); ADULT; BLOOD SUGAR  
(analysis); CHILD; CORTICOTROPIN (blood);

DEPRESSION (physiopathology, blood);  
ENDOCRINE GLANDS (physiopathology);  
FEMALE; HUMAN; HYDROCORTISONE  
(blood); MALE; MIDDLE AGE; MODELS,  
NEUROLOGIC; MONOGRAPH; PITUITARY  
GLAND, ANTERIOR (physiopathology);  
SOMATOTROPIN (blood).

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UNSATURATED (toxicity); FEMALE; HEART  
(drug effects); LIPOIDOSIS (chemically induced,  
pathology); MALE; MYOCARDITIS (chemically  
induced, pathology); MYOCARDIUM  
(ultrastructure, metabolism); OILS (toxicity);  
RATS; TIME FACTORS.

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THE BLOOD OF PATIENTS WITH SOME  
FORMS OF OPHTHALMOPATHY. Zaretskaia  
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AMNIOTIC FLUID (metabolism); ANIMAL  
EXPERIMENTS (analysis); BODY WEIGHT;  
FETAL DEATH; FETUS (metabolism);  
GLUCOSE TOLERANCE TEST; INFANT,  
NEWBORN; LECITHINS (metabolism); LUNG  
(metabolism); MONKEYS; PREGNANCY IN  
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**Eremina SS**

EFFECT OF ENDOGENOUS RESPIRATION OF  
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TION OF THE CYTOCHROME SYSTEM AND  
THE OXIDATION OF GLUCOSE, ETHANOL  
AND ACIDS OF THE KREBS CYCLE [Sokolov  
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CELLS, CULTURED; CORTISONE  
(pharmacodynamics); ETHYLMORPHINE-N-  
DEMETHYLASE (metabolism); GLUCOSE  
(metabolism); INSULIN (pharmacodynamics);  
KINETICS; LIVER (enzymology);  
OXIDOREDUCTASES, N-DEMETHYLATING  
(metabolism); OXYGEN CONSUMPTION;  
RATS; THYROID (pharmacodynamics); TIME  
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**Erkkola R**

SERUM GROWTH HORMONE, SERUM IMMU-  
NOREACTIVE INSULIN AND BLOOD GLU-  
COSE RESPONSE TO INTRAVENOUS TOL-  
BUTAMIDE IN POSTMENOPAUSAL WOMEN  
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ADENOSINE TRIPHOSPHATE (metabolism);  
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(pharmacodynamics); AUROVERTIN  
(pharmacodynamics); CHLOROPLASTS  
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ultrastructure); MODELS, BIOLOGICAL;  
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PHOSPHORYLATION; OXYGEN  
CONSUMPTION (drug effects);  
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ROTONONE (pharmacodynamics).

**Ershova LM**

EFFECT OF INSULIN ON TOTAL POTASSIUM  
LEVEL IN PATIENTS WITH DIABETES MEL-  
LITUS [Bogoliubov VM, Ershova LM, Kaplan  
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INSULIN BINDING OF ACUTE LYMPHOCYTIC  
LEUKEMIA CELLS. Esber EC, Buell DN,  
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B-LYMPHOCYTES (metabolism); BINDING  
SITES; BINDING SITES, ANTIBODY; BONE  
MARROW CELLS (metabolism); CELL  
MEMBRANE (immunology); CHILD; FEMALE;  
HUMAN; INSULIN (metabolism); LEUKEMIA,  
LYMPHOBLASTIC (blood, metabolism); MALE;  
T-LYMPHOCYTES (metabolism); UNITED  
STATES GOVERNMENT SUPPORTED, N.I.H. ).

**Escobar del Rey F**

CONVERSION OF L-THYROXINE TO  
TRIODO-L-THYRONINE AND BIOLOGICAL  
ACTIVITY OF L-THYROXINE, AS MEAS-  
URED BY CHANGES IN GROWTH HOR-  
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AGE FACTORS; ANIMAL EXPERIMENTS;  
BLOOD SUGAR; BODY TEMPERATURE  
REGULATION (drug effects); FATTY ACIDS,  
NONESTERIFIED (blood); FEMALE; LIVER  
GLYCOGEN (metabolism); LIVER (drug effects);  
METHAMPHETAMINE (pharmacodynamics);  
MICE; OXYGEN CONSUMPTION (drug effects).

**Etelz M**

CLINICAL TRIAL OF THE ANTIBACTERIAL  
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XOLE/TRIMETHOPRIM (CN 3123)/SIXTH  
COMMUNICATION: RESULTS OF COM-  
PATIBILITY OF CN 3123 (AUTHORS  
TRANSL) [Etelz M, Wessenberg W *Arzneim*  
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ADOLESCENCE; ADULT; AGED; BLOOD  
SUGAR (metabolism); CHILD; CHILD,  
PRESCHOOL; CLINICAL RESEARCH;

DIABETES MELLITUS (blood); DRUG  
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FEMALE; HUMAN; INFANT; KIDNEY (drug  
effects); LIVER (drug effects); MALE; MIDDLE  
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THYROID GLAND (drug effects);  
TRIGLYCERIDES (blood); TRIMETHOPRIM  
(adverse effects).

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AND PORCINE GROWTH HORMONES. AP-  
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COMPETITIVE; HUMAN;  
RADIOIMMUNOASSAY (methods);  
SOMATOTROPIN (blood, immunology); SWINE  
(adverse effects).

**Evans AJ**

BIOTIN DEFICIENCY AND FATTY LIVER AND  
KIDNEY SYNDROME IN CHICKS GIVEN PU-  
RIIFIED DIETS CONTAINING DIFFERENT  
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ADULT; CHOLESTEROL (blood);  
CREATININE (urine); DIET, REDUCING;  
DIETARY CARBOHYDRATES; DIETARY  
FATS; DIETARY PROTEINS; ENERGY  
METABOLISM; FEMALE; HUMAN; KETOSIS  
(etiology); LIPIDS (blood); NITROGEN (urine);  
OBESITY (diet therapy); TRIGLYCERIDES  
(blood); URIC ACID (blood).

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TRANSPLANTATION] Bengtsson U, Brynger  
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MONKEY PREGNANCY. Epstein MF, Farrell  
PM, Chez RA *Pediatrics* 57: 722-8, May 76  
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[RESPIRATION TOXINS AS INHIBITORS OF  
ION TRANSPORT, SUPPORTED BY ATP  
HYDROLYSIS, IN MITOCHONDRIA] Dolgov  
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Skulachev VP, Fateva LA *Biokhimiia* 40: 934-  
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TISOL AFTER ADMINISTRATION OF  
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R, Tanganelli I, Migliarese G *Boll Soc Ital Biol*  
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ALBUMINS (pharmacodynamics); ANIMAL EXPERIMENTS; CYTOPLASM (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); MALE; MICROSOMES (metabolism); MITOCHONDRIA (metabolism); MYOCARDIUM (metabolism, ultrastructure); OLEIC ACIDS (metabolism); PALMITATES (metabolism); PALMITIC ACIDS (metabolism); PHOSPHOLIPIDS (metabolism); RATS; SUBCELLULAR FRACTIONS (metabolism); SUCROSE (pharmacodynamics).

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DIABETIC RETINOPATHY; HUMAN.

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 AGED; AMPUTATION; ARTERITIS (etiology, mortality, surgery); ATHEROMA (complications, mortality); BLOOD VESSEL PROSTHESIS; DIABETIC ANGIOPATHIES (mortality, surgery); ENDARTERECTOMY; HUMAN; LEG (blood supply, surgery); POSTOPERATIVE COMPLICATIONS; SYMPATHECTOMY.

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STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

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ACETATES (metabolism, pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); DITHIONITROBENZOIC ACID (pharmacodynamics); ELECTRON TRANSPORT; ETHYLMALIMIDE (pharmacodynamics); KINETICS; MEMBRANES (metabolism, drug effects); MERCURY (pharmacodynamics); MERSALYL (pharmacodynamics); MITOCHONDRIA (metabolism, drug effects); MITOCHONDRIAL SWELLING (drug effects); MODELS, BIOLOGICAL; MONOGRAPH; NAD (metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); PHILIPPINES; PHOSPHATES (metabolism); PHOSPHATES, INORGANIC (metabolism).

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EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

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EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHEED RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

ACETYLCHOLINE (pharmacodynamics); ALLOXAN DIABETES (physiopathology); ANIMAL EXPERIMENTS (analysis); AUTONOMIC DRUGS (pharmacodynamics); BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); FOOD DEPRIVATION; HEMODYNAMICS (drug effects); ISOPROTERENOL (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); OBESITY (familial & genetic, physiopathology); RATS; SPINAL CORD (physiology); STREPTOZOTOCIN.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); CHOLESTASIS (metabolism); GLUCAGON (administration & dosage, metabolism); HEPATITIS (metabolism); HUMAN; INJECTIONS, INTRAVENOUS.

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 ADOLESCENCE; ADULT; BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CONTRACEPTIVES, ORAL, COMBINED (pharmacodynamics); CONTRACEPTIVES, ORAL, SEQUENTIAL (pharmacodynamics); ERYTHROCYTE COUNT; FEMALE; HEMATOCRIT; HEMOGLOBINOMETRY; HUMAN; LEUKOCYTE COUNT; MENSTRUATION; MIDDLE AGE; MONOGRAPH; PULSE (drug effects).

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AMINO ACIDS (metabolism); COMPARATIVE STUDY; GLUCOSE (metabolism); HUMAN; INFUSIONS, PARENTERAL; NITROGEN (metabolism); OBESITY (metabolism); SURGERY, OPERATIVE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS. Fremmet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487

ANIMAL EXPERIMENTS; BODY WEIGHT; CALCIUM RADIOISOTOPES; CARBON DIOXIDE (metabolism); FASTING; GLUCOSE (metabolism); MALE; OXYGEN CONSUMPTION; RATS; RESPIRATION.

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STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

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ACROMEGALY (metabolism); ADULT; AGED; CHOLESTEROL (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; SOMATOTROPIN (blood); TRIGLYCERIDES (blood).

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ADOLESCENCE; ADULT; AGED; BACTERIOLOGICAL TECHNIQS; BACTERIURIA (complications, diagnosis); CHILD; DIAGNOSIS, DIFFERENTIAL; FEMALE; GENITAL DISEASES, MALE (diagnosis); GLYCOSURIA (diagnosis); GYNECOLOGIC DISEASES (diagnosis); HUMAN; MALE; MIDDLE AGE; MONOGRAPH (mortality); SWEDEN; URETHRITIS (etiology); URINARY TRACT INFECTIONS (diagnosis); URINE (analysis).

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ADULT; AGED; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; KIDNEY CALCULI (complications, surgery); MALE; MIDDLE AGE; POSTOPERATIVE CARE; PREOPERATIVE CARE.

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ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (veterinary); MALE; TURTLES.

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METHODS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, chemical synthesis); TYROSINE (analogs & derivatives).

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[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY

MECHANISM OF THE RAT (AUTHORS TRANSL)] Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

ADAPTATION, PHYSIOLOGICAL (drug effects); ANIMAL EXPERIMENTS; BIOGENIC AMINES (physiology); BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION (drug effects); CEREBRAL VENTRICLES; DOPAMINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HALOPERIDOL (pharmacodynamics); HYDROXYDOPAMINE (pharmacodynamics); HYPOTHERMIA (chemically induced); IMPRAMINE (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LEVODOPA (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PHENOXYBENZAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; RECTUM; SEROTONIN (pharmacodynamics); SKIN TEMPERATURE (drug effects).

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MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

BINDING SITES; BIOTIN; COENZYME A; ELECTRON SPIN RESONANCE, KINETICS; MACROMOLECULAR SYSTEMS; MATHEMATICS, METALLOPROTEINS; MOLECULAR CONFORMATION; MOLECULAR MODELS; MOLECULAR WEIGHT; NUCLEAR MAGNETIC RESONANCE; PROPIONATES; PROPIONIBACTERIUM (enzymology); PROTEIN BINDING; PROTEIN CONFORMATION; PYRUVATES; TRANSFERASES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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GLUCONEOGENESIS: A TEACHING PATHWAY. CRITERIA TO ESTABLISH A METABOLIC PATHWAY. Gabrielli F *J Chem Educ* 53: 86-91, Feb 76 (Eng) \*DL/76NOV522

BIOCHEMISTRY (education); GLUCONEOGENESIS.

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[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov IaK, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

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[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

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SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; EPITHELIAL CELLS (metabolism, drug effects); FRUCTOSE (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HEXOSES (pharmacodynamics); ILEUM (metabolism, drug effects); IN VITRO; JEJUNUM (metabolism, drug effects); MANNITOL (pharmacodynamics); RABBITS; RATS; SODIUM (metabolism).

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[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

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[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA] Berces G, Garas Z *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hun) DL/76NOV199

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UNUSUAL SPECIFICITIES OF ANTIBODIES TO <sup>3</sup>H-GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; BINDING SITES; GLUCAGON (immunology); GLUTARALDEHYDE; HUMAN; PROTEIN BINDING; RABBITS (immunology); SERUM ALBUMIN.

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[EFFECT OF TOLBUTAMIDE ON PLASMA INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

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RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); EPIDIDYMIS; GLUCAGON (pharmacodynamics); GLYCERIN (blood); INSULIN (blood); LIVER (anatomy & histology, metabolism); MALE; ORGAN WEIGHT; RATS; SPECIES SPECIFICITY.

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**MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS.** PP. 167-80. Gardos G, Szasz I, Sarkadi B. In: *Gardos G, Szasz I, ed. Biomembrane structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403  
**BIOLOGICAL TRANSPORT, ACTIVE;**  
**CALCIUM (pharmacodynamics); CELL MEMBRANE (metabolism, drug effects); ERYTHROCYTES (metabolism, drug effects); EGTA (pharmacodynamics); HUMAN; KINETICS; MONOGRAPH; POTASSIUM (blood); PROPRANOLOL (pharmacodynamics).**

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**THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS.** Millward DJ, Garlick PJ, Nanyelugo DO, Waterlow JC. *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

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**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY.** Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

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**[EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD]** PP. 94-5. Karaev MA, Gasanov GG. In: *Gasanov GG, ed. Selen v biologii.* Baku, Elm, 1974. QV 618 S464 1974. (Rus) \*DL/76NOV384

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**[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL]** Gasinska T, Gburek Z. *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

**ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); DIABETES MELLITUS (sugar); ENGLISH ABSTRACT; ERYTHROCYTES (analysis); FEMALE; HUMAN; MALE; MIDDLE AGE; POTASSIUM (analysis); SODIUM (analysis).**

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**SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA.** PP. 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatti JA. In: *Schweizer W, ed. Beta-blockers - present status and future prospects.* Bern, Huber, 1974. QV 132 B562 1974. (Eng) \*DL/76NOV640

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**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW. *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

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**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M. *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**CELL LINE; CROSS REACTIONS; KINETICS; LEUCINE (metabolism); PITUITARY GLAND (metabolism, cytology); PRECIPITIN TESTS; PROLACTIN (biosynthesis, secretion, immunology); PROTEINS (biosynthesis); RATS; SOMATOTROPIN (secretion, immunology).**

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**CELL ADHESION (drug effects); CELL LINE; DOSE-RESPONSE RELATIONSHIP, DRUG; PITUITARY GLAND (metabolism, cytology); PROLACTIN (biosynthesis, secretion); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); PROTEINS (biosynthesis); RATS; SOMATOTROPIN (biosynthesis, secretion); STIMULATION, CHEMICAL; THYROTROPIN-RELEASING HORMONE (pharmacodynamics).**

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**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSURAL MYOCARDIAL INFARCT]** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrilu F, Nicolau V, Russe G, Serban I. *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

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**ENERGETIC COUPLING OF AMINO ACID TRANSPORT.** PP. 107-15. Heinz E, Pietrzyk C, Geck P, Pfeiffer B. In: *Gardos G, Szasz I, ed. Biomembrane structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

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**[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION]** Bengtsson U, Brynner H, Ewald J, Gelin LE, Larsson O. *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynner H, Blohme G, Claes G, Gustafsson A, Gelin LE. *Scand J Urol Nephrol* 59: 62, 6-7 Mar 75 (Eng) DL/76NOV241

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**[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA<sup>2+</sup>]** Genin MS, Andreev VS. *Biokhimiia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

**CALCIUM (pharmacodynamics, physiology); ENGLISH ABSTRACT; ENZYME ACTIVATION; GLYCOLYSIS; HEXOKINASE (antagonists & inhibitors); KINETICS; MAGNESIUM (pharmacodynamics); PYRUVATE KINASE (antagonists & inhibitors).**

## Gennari C

**[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM]** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R. *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

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**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H. *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

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AND COMPLICATIONS. CONCLUSIONS] Gomez-Arnau JJ, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) DL/76NOV229  
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(metabolism); MALE; RATS.

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BUNGAROTOXINS (metabolism); CATTLE;  
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ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; FASTING; GLUCOSE (metabolism); GLYCOLYSIS (drug effects); INSECT HORMONES (pharmacodynamics); INVERTEBRATE HORMONES (pharmacodynamics); PENTOSE (metabolism); TENEBRIO (metabolism, drug effects).

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PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY. Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

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ANIMAL EXPERIMENTS (analysis); ANTILYMPHOCYTE SERUM (administration & dosage); DIABETES MELLITUS (surgery); DIABETIC NEPHROPATHIES (prevention & control); DIABETIC RETINOPATHY (prevention

& control); GRAFT REJECTION (prevention & control); ISLANDS OF LANGERHANS (transplantation); LEUKOCYTE CULTURE TEST, MIXED; LYMPHOCYTES (immunology); MALE; PORTAL VEIN; RATS; RATS, INBRED F344; RATS, INBRED LEW; SKIN (transplantation); TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, ISOGENIC.

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[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

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UNUSUAL SPECIFICITIES OF ANTIBODIES TO <sup>3</sup>H-GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

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THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

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EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

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THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

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ANIMAL EXPERIMENTS (analysis); ARTERIES (drug effects); CATS; DOSE-RESPONSE RELATIONSHIP; DRUG; DRUG ADMINISTRATION SCHEDULE; GASTRIC MUCOSA (blood supply); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (pharmacodynamics); HISTAMINE (pharmacodynamics); MICROCIRCULATION (drug effects); PENTAGASTRIN (pharmacodynamics); PYLORIC ANTRUM (blood supply); SECRETIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VASCULAR RESISTANCE (drug effects); VASOMOTOR SYSTEM (drug effects).

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AEROBIOSIS; ANAEROBIOSIS; ENZYME REPRESSION; GLUCONEOGENESIS; GLUCOSE (metabolism, pharmacodynamics); HEXOSEDIPHOSPHATASE (biosynthesis); ISOCITRATES; KETOACID-LYASES (biosynthesis); PHOSPHOENOLPYRUVATE CARBOXYKINASES (biosynthesis); PYRUVATE CARBOXYLASE (biosynthesis); SACCHAROMYCES CEREVISIAE (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haeflner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

ACETATES (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; COENZYME A (pharmacodynamics); CYTOSOL (metabolism, drug effects); FATTY ACIDS (biosynthesis); LIPIDS (biosynthesis); MAGNESIUM

(pharmacodynamics); MALE; MITOCHONDRIA (metabolism, drug effects); NADP (pharmacodynamics); PHILIPPINES; RATS; TESTIS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADULT; ARACHIDONIC ACIDS (blood); ARTERIES (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; MALE; OLEIC ACIDS (blood); SEX FACTORS.

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ANIMAL EXPERIMENTS (analysis); EMBRYO (drug effects); FEMALE; FERTILIZATION (drug effects); LARVA (drug effects, ultrastructure); MALE; MITOSIS (drug effects); SEA URCHINS; SPERMATOZOA (drug effects); TOLBUTAMIDE (pharmacodynamics).

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ADULT; AGE FACTORS; AGED; CHOLESTEROL (blood); CORONARY DISEASE (complications); CORONARY VESSELS (radiography); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERTENSION (complications); HYPERLIPIDEMIA (complications); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; BREAD (analysis); CALCIUM (blood); CHOLESTEROL (blood); DIETARY CARBOHYDRATES; HEMOGLOBINS (metabolism); HUMAN; LIPIDS (blood); MALE; PHOSPHATES (blood); POLYSACCHARIDES (pharmacodynamics, analysis); TIME FACTORS; TRIGLYCERIDES (blood); UREA (blood); URIC ACID (blood); WHEAT (analysis).

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ADIPOSE TISSUE (metabolism, drug effects); ANIMAL EXPERIMENTS; FEMALE; GLUCOSE (metabolism); GLYCOLYSIS (drug effects); MEDROXYPROGESTERONE (pharmacodynamics); RATS.

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ANIMAL EXPERIMENTS; HYPOTHYROIDISM (metabolism); MALE; PENTOBARBITAL (diagnostic use); PROPYLTHIOURACIL (pharmacodynamics); RATS; SOMATOTROPIN (metabolism); THYROIDECTOMY; THYROXINE (metabolism); TRIIODOTHYRONINE (metabolism).

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INHIBITION OF BASAL AND STIMULATED GASTRIC H<sup>+</sup> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METAMIDE, AN H-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

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IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

CELL MOVEMENT; CULTURE MEDIA; EPITHELIAL CELLS (pathology, secretion); GASTRIN (secretion); GLUCAGON (secretion); HUMAN; HYPOGLYCEMIA (metabolism, pathology); INFANT; INSULIN (secretion); ISLANDS OF LANGERHANS (pathology); PANCREAS (pathology, secretion); PANCREATECTOMY; PANCREATIC DUCTS (pathology); TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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BLOOD; CELL TRANSFORMATION, NEOPLASTIC; CELLS, CULTURED; COMPARATIVE STUDY; CULTURE MEDIA; DNA (biosynthesis); DNA, NEOPLASM (biosynthesis); FIBROBLASTS (drug effects, metabolism); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); MONOGRAPH (mortality); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neeley WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

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ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Himswoorth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

ANIMAL EXPERIMENTS (analysis); ANTIBODY FORMATION; ANTIGENIC DETERMINANTS; BODY WEIGHT; CATTLE (immunology); CROSS REACTIONS; FEMALE; GUINEA PIGS; HYPOGLYCEMIA (chemically induced); IMMUNIZATION; IMMUNIZATION, SECONDARY; INSULIN ANTIBODIES (biosynthesis); INSULIN (immunology).

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Himswoorth RL *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

ACYLATION; ANIMAL EXPERIMENTS (analysis); ANTIBODY FORMATION; ANTIGENIC DETERMINANTS; BINDING SITES, ANTIBODY; CROSS REACTIONS; FEMALE; GUINEA PIGS; IMMUNIZATION, SECONDARY; INSULIN ANTIBODIES (analysis); INSULIN (immunology); INSULIN (analogs & derivatives).

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ANGIOMATOSIS (diagnosis); BLOOD GROUP INCOMPATIBILITY (complications); CHORIONIC VILLI (blood supply); ENGLISH ABSTRACT; ERYTHROBLASTOSIS, FETAL (complications); FEMALE; HUMAN; NECROSIS; ORGAN WEIGHT; PLACENTA DISORDERS (diagnosis, etiology); PLACENTA; PREGNANCY; REGIONAL BLOOD FLOW; RH-IR BLOOD-GROUP SYSTEM.

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GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr,

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CALCIUM (metabolism, physiology); ENZYME ACTIVATION (drug effects); GLYCOGEN SYNTHETASE (metabolism); INSULIN (pharmacodynamics, physiology); MALE; PROCAINE (pharmacodynamics); RATS.

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OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiya F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

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PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (biosynthesis); AMINO ACIDS (metabolism); BACTERIORHODOPSIN (biosynthesis); BIOLOGICAL TRANSPORT, ACTIVE; CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); DICYCLOHEXYLCARBODIIMIDE (pharmacodynamics); GLYCERIN (metabolism); HALOBACTERIUM (metabolism, enzymology); HISTIDINE (metabolism); LEUCINE (metabolism); LIGHT; PHOTOPHOSPHORYLATION (drug effects); PROLINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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ANIMAL EXPERIMENTS; BODY WEIGHT; COLD; DIETARY FATS; FATTY ACIDS (metabolism); LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism, pathology); NECROSIS; OILS (pharmacodynamics); PLANTS; RATS; STRESS (metabolism, mortality, pathology).

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CELL FRACTIONATION; CELL WALL (metabolism, ultrastructure, analysis); CHLORELLA (metabolism); ENGLISH ABSTRACT; FATTY ACIDS (analysis); GALACTOSE (metabolism); GLUCOSE (metabolism); HEXOSES (metabolism); MANNOSE (metabolism); TEMPERATURE.

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POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARAC-

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ADENINE NUCLEOTIDES (blood); ADENOSINE DIPHOSPHATE (blood, pharmacodynamics); ADENOSINE TRIPHOSPHATE (blood); BLOOD PLATELET DISORDERS (blood, complications); CASE REPORT; CHILD; COLLAGEN (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (complications, drug therapy); INFANT; PLATELET AGGREGATION (drug effects); RISTOCETIN (pharmacodynamics).

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ADOLESCENCE; ADULT; AGED; DIABETIC NEPHROPATHIES (diagnosis, physiopathology); ENGLISH ABSTRACT; FEMALE; GLOMERULAR FILTRATION RATE; HUMAN; KIDNEY GLOMERULUS (physiopathology); MALE; MIDDLE AGE; NEPHROSCLEROSIS (diagnosis, physiopathology); PYELONEPHRITIS (diagnosis, physiopathology); RADIOISOTOPE RENOGRAPHY.

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(metabolism); CYTOPLASM (metabolism); ENERGY METABOLISM; KETOGLUTARIC ACIDS (metabolism); KREBS CYCLE; LACTATES (biosynthesis); MALATES (metabolism); MALE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism); NAD (metabolism); OXYGEN CONSUMPTION; PYRUVATES (metabolism); RATS; SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H. *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS. PP. 243-50. Imura H, Kato Y. In: *Hototani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ADRENERGIC RECEPTOR AGONISTS (pharmacodynamics); ANIMAL EXPERIMENTS; HUMAN; HYPOTHALAMO-HYPOPHYSAL SYSTEM (drug effects); MONOGRAPH; PROLACTIN (secretion); RATS; SOMATOTROPIN (secretion).

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OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiya F, Inada H, Kitabatake A, Hori M. *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

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BLOOD SUGAR; DECISION MAKING; DIABETIC COMA (therapy); INSULIN (therapeutic use); MATHEMATICS; MODELS, THEORETICAL.

## Invitti C

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C. *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

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**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

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**[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA]** Dolgov AV, Ismanlov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

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**Iudaev NA**

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION]** Iudaev NA, Afonogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology, metabolism); ADENYL CYCLASE (metabolism); ADRENAL CORTIX HORMONES (biosynthesis); ADRENAL GLANDS (metabolism); ANIMAL EXPERIMENTS; CELL MEMBRANE (metabolism); CELL NUCLEUS (metabolism); CHOLESTEROL (metabolism); CHROMATIN (metabolism); CORTICOTROPIN (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); GUANYL CYCLASE (metabolism); HORMONES (metabolism); NUCLEOPROTEINS (metabolism); PHOSPHORUS (metabolism); PROTEIN KINASE (metabolism); PROTEINS (metabolism); RECEPTORS, HORMONE; REVIEW; RIBOSOMES (metabolism).**

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**[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS]** Iurovitskii IUG, Milman LS *Biokhimiia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

**ANIMAL EXPERIMENTS; EMBRYO (enzymology); ENGLISH ABSTRACT; FISHES (embryology); GLUCOSYLTRANSFERASES (metabolism); GLYCOGEN DEBRANCHING ENZYME (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); GLYCOGEN (metabolism); OOCYTES (enzymology); OVUM (enzymology).**

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**K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

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**[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS]** Ivlev AA, Koroleva Mla, Kaloshin AG *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

**CARBON ISOTOPES; ENGLISH ABSTRACT; ISOTOPE LABELING; KINETICS; KREBS CYCLE; OXYGEN CONSUMPTION; PYRUVATES (metabolism).**

**Iwasaki Y**

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HOR-**

**MONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

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**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

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**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

**ALLOXAN (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CARBOHYDRATES (pharmacodynamics); CELL SURVIVAL (drug effects); FEMALE; GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); PROINSULIN (biosynthesis); RATS; TRANSLATION, GENETIC (drug effects).**

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**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

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**PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN.** Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

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[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzlou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

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CELL FRACTIONATION; CELL MEMBRANE (metabolism, ultrastructure); CELL TRANSFORMATION; NEOPLASTIC; HORMONES (metabolism); HUMAN; INSULIN (metabolism); KINETICS; MATHEMATICS; MODELS, BIOLOGICAL; MOLECULAR WEIGHT; NEUROHORMONS (metabolism); ORGANOIDS (analysis); PROTEIN CONFORMATION; RECEPTORS, ADRENERGIC; RECEPTORS, CHOLINERGIC; RECEPTORS, HORMONE; STRUCTURE-ACTIVITY RELATIONSHIP.

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ADULT; AGED; CLINICAL RESEARCH; COMPARATIVE STUDY; FEMALE; FENFLURAMINE (therapeutic use); GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; OBESITY IN DIABETES (drug therapy); PHENFORMIN (therapeutic use).

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ADOLESCENCE; ADULT; CORONARY DISEASE (complications, diet therapy); DIABETES MELLITUS (complications, drug therapy); ENGLISH ABSTRACT; HUMAN; MALE; MIDDLE AGE; TOLBUTAMIDE (therapeutic use).

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[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE] Khililar M, Uong DS *Biochimica* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

ADENINE NUCLEOTIDES (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; GLUTAMATE DEHYDROGENASE (metabolism); GUANINE NUCLEOTIDES (pharmacodynamics); KETOGLUTARIC ACIDS (pharmacodynamics); MITOCHONDRIA, LIVER (enzymology, drug effects); PHOSPHATES (pharmacodynamics); PHOSPHATES, INORGANIC (pharmacodynamics); RATS.

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (enzymology); ANIMAL EXPERIMENTS; CALCIUM (pharmacodynamics); CHICKENS; CYTOSOL (enzymology, drug effects); ENZYME ACTIVATION (drug effects); EGTA (pharmacodynamics); FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHORYLASE KINASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; CHOLESTEROL (blood); DIABETES MELLITUS (diet therapy, drug therapy); DIETARY CARBOHYDRATES (analysis); DOSE-RESPONSE RELATIONSHIP, DRUG; HUMAN; HYPERGLYCEMIA (diet therapy); INSULIN (therapeutic use); MALE; MIDDLE AGE; OLIGOSACCHARIDES (analysis); POLYSACCHARIDES (analysis, therapeutic use); SULFONYLUREA COMPOUNDS (therapeutic use); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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ADULT; AGED; AMPUTATION STUMPS; AMPUTATION; ARTERIAL OCCLUSIVE DISEASES (rehabilitation, surgery); DIABETIC ANGIOPATHIES (surgery); FEMALE; HUMAN; KNEE; LEG (blood supply, surgery); MALE; MIDDLE AGE; WOUND HEALING.

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AMINO ACID SEQUENCE; AMINO ACIDS (analysis); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL ASSAY; CATTLE; COMPARATIVE STUDY; INSULIN (analysis, isolation & purification, physiology); LIZARDS; OXIDATION-REDUCTION; PANCREAS (analysis); PEPTIDE FRAGMENTS (analysis); SNAKES (metabolism); SPECIES SPECIFICITY; TRYPSIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CELL MEMBRANE (metabolism); GLUCOSE (metabolism); KIDNEY TUBULES, PROXIMAL (metabolism); MONOGRAPH; PHLOPHIZIN (pharmacodynamics); SODIUM (pharmacodynamics); TROMETHAMINE (pharmacodynamics).

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**ANIMAL EXPERIMENTS (analysis); CATTLE; COMPARATIVE STUDY; ENGLISH ABSTRACT; FEMALE; INSULIN (blood); ZINC (deficiency, metabolism).**

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**ANIMAL EXPERIMENTS; ANOXIA (cerebrospinal fluid, physiopathology, blood); BLOOD PRESSURE; BLOOD SUGAR (metabolism); CEREBRAL CORTEX (metabolism); HEART RATE; HEART (physiopathology); MAGNESIUM (blood, cerebrospinal fluid); MONKEYS; OXYGEN**

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**BINDING, COMPETITIVE; GALACTOSIDASES (metabolism); IMMUNOASSAY; INDICATORS AND REAGENTS; INSULIN ANTIBODIES; INSULIN (analysis); MALEIMIDES; PROTEIN BINDING; SUCCINIMIDES.**

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**ANIMAL EXPERIMENTS; CARDIAC OUTPUT (drug effects); CATECHOLAMINES (therapeutic use, pharmacodynamics, metabolism); CORONARY DISEASE (drug therapy, metabolism); DOGS; FATTY ACIDS, NONESTERIFIED (metabolism); HUMAN; ISOPROTERENOL (therapeutic use, pharmacodynamics); MYOCARDIAL INFARCT (drug therapy, metabolism); MYOCARDIUM (metabolism); NICOTINYL ALCOHOL (therapeutic use, pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PYRIDINES (therapeutic use).**

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**ADENOSINE TRIPHOSPHATASE; ANIMAL EXPERIMENTS; BINDING SITES; CHOLESTEROL; ELECTRON SPIN RESONANCE; FREEZE FRACTURING; LIPIDS; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; PROTEIN BINDING; PROTEIN CONFORMATION; RABBITS; SARCOPLASMIC RETICULUM (enzymology); TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

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**AMINO ACIDS (pharmacodynamics); ARGININE (metabolism); CANAVANINE (metabolism); CELLS, CULTURED; CYCLOHEXIMIDE (pharmacodynamics); FETAL BLOOD; HEPATOMA (metabolism); INSULIN (pharmacodynamics); LEUCINE (metabolism); LEUPEPTINS (pharmacodynamics); LIVER NEOPLASMS (metabolism); NEOPLASM PROTEINS (metabolism); NEOPLASMS, EXPERIMENTAL (metabolism); PEPSTATINS (pharmacodynamics); PHENYLMETHYLSULFONYL FLUORIDE (pharmacodynamics); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PUROMYCIN (pharmacodynamics).**

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**EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESE RATS.** Koletsy S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

**ANIMAL EXPERIMENTS; BODY WEIGHT; CHOLESTEROL (blood); DIET, REDUCING; FEMALE; HYPERTENSION (complications); LONGEVITY; MALE; OBESITY (physiopathology, familial & genetic, diet therapy); PROTEINURIA (diet therapy); RATS; TRIGLYCERIDES (blood).**

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**EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS.** Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

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AGED; ALKALINE PHOSPHATASE (blood); BLOOD PRESSURE; BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CALCIUM (blood); CREATININE (blood); DIURETICS, SULFAMYL (therapeutic use); FEMALE; HEART FAILURE, CONGESTIVE (drug therapy, metabolism); HUMAN; MALE; METOLAZONE (therapeutic use, adverse effects); MIDDLE AGE; TIME FACTORS; URIC ACID (blood).

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IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 31s-32s, Jul 76 (Eng) DL/76NOV192

ADULT; BLOOD PLATELETS; CASE REPORT; CESAREAN SECTION; FEMALE; FETAL BLOOD; GASTRITIS (complications); HEMORRHOIDS (complications); HUMAN; INFANT, NEWBORN; MALE; PREGNANCY IN DIABETES; PREGNANCY COMPLICATIONS, HEMATOLOGIC; PREGNANCY; PURPURA, THROMBOCYTOPENIC (blood, complications); SPLENECTOMY.

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ADOLESCENCE; BODY HEIGHT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (drug therapy, urine); FEMALE; GLYCOSURIA; HUMAN; INSULIN (therapeutic use); MALE; TIME FACTORS.

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PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

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ADULT; BLOOD PRESSURE; BODY COMPOSITION; CHOLESTEROL (blood); DIET, REDUCING; ENERGY METABOLISM; EXERCISE THERAPY; FEMALE; HEART RATE; HUMAN; LIPIDS (metabolism); LIPOPROTEINS (blood); MIDDLE AGE; OBESITY (therapy); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WORK CAPACITY EVALUATION.

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IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

BIRTH WEIGHT; BLOOD SUGAR; CASE REPORT; CIRCADIAN RHYTHM; DELIVERY; FEMALE; GESTATIONAL AGE; GLYCOSURIA (complications); HUMAN; INFANT, NEWBORN; INSULIN (blood, therapeutic use); MALE; PREGNANCY IN DIABETES (therapy); PREGNANCY IN DIABETES (metabolism); PREGNANCY; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

L'Hermite M

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermite M, Vanhaelst L, Golstein J, Leclercq R, Ferry F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS (occurrence); DIABETES MELLITUS, JUVENILE (familial & genetic); GENETIC COUNSELING; HETEROZYGOTE; HUMAN; MIDDLE AGE; PROGNOSIS; RUSSIAN FEDERATION (EUROPE).

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ANIMAL EXPERIMENTS; BLOOD PRESSURE; CORONARY CIRCULATION; CORONARY DISEASE (metabolism, physiopathology, drug therapy); DISEASE MODELS, ANIMAL; GLYCOLYSIS; HEART VENTRICLE (physiopathology); HEART (physiopathology); MYOCARDIUM; MYOCARDIUM; OXYGEN CONSUMPTION; PYRUVATES (therapeutic use); SWINE; TROMETHAMINE (therapeutic use).

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FEMALE; GLIBORNURIDE (therapeutic use); HUMAN; MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (therapeutic use); TOLBUTAMIDE (therapeutic use).

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EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS. Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BRAIN (metabolism); FEMALE; IMMOBILIZATION; MICE; NICOTINAMIDE (analogs & derivatives, urine); NOREPINEPHRINE (metabolism); PYRIDOXINE (pharmacodynamics); SEROTONIN (metabolism); STOMACH ULCER (etiology, prevention & control); STOMACH (pathology); STRESS (drug therapy, pathology).

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[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS] Myshkin KI, Lisenkov VP *Vestn Khir* 116: 97-9, May 76 (Rus) DL/76NOV266

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[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS] Litovchenko IuS *Vrach Delo* 105-8, Oct 75 (Rus) DL/76NOV268

ADOLESCENCE; ADULT; AGE FACTORS; AGED; COMPARATIVE STUDY; DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (blood); MALE; MIDDLE AGE.

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[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaia KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

ADULT; AGED; ANTIGENS; BLOOD SUGAR (analysis); CORONARY DISEASE (blood, immunology); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, immunology); MALE; MIDDLE AGE.

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ANEMIA, HYPOCHROMIC (etiology, drug therapy); ARTERIOVENOUS SHUNT, SURGICAL (adverse effects); BLOOD FLOW VELOCITY; CARDIAC OUTPUT; CHOLECALCIFEROLS (metabolism); ERYTHROPOIESIS; GLUCOSE (metabolism); HEMODIALYSIS (adverse effects, methods); HEMOLYTIC-UREMIC SYNDROME (etiology); HUMAN; HYPERLIPIDEMIA (etiology); HYPERTENSION, RENAL (etiology, physiopathology); KIDNEY FAILURE, CHRONIC (complications, physiopathology, blood); MALE; PARATHYROID HORMONE (metabolism); PERIPHERAL NERVE DISEASES (etiology); PHOSPHATES (blood); RENAL OSTEODYSPLASIA (etiology, diagnosis, drug therapy); REVIEW; STERILITY, MALE (etiology); TRIGLYCERIDES (blood).

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METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA). Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

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AMINO ACIDS (metabolism); COMPARATIVE STUDY; DIETARY CARBOHYDRATES (metabolism); DIETARY FATS (metabolism); DRUG COMBINATIONS; GLUCOSE (metabolism); GLYCERIN (metabolism); HUMAN; LECITHINS (metabolism); NITROGEN (urine); OILS (metabolism); PARENTERAL FEEDING; PROTEINS (metabolism).

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[INSULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL



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(AUTHORS TRANSL.) Angulo P, Fernandez J, Lasiera J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

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[AMYLASE DETERMINATION IN URINE]  
Lorentz K, Koch CD *Dtsch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) DL/76NOV49  
ACUTE DISEASE; AMYLASE (urine); CEREBROVASCULAR DISORDERS (enzymology); DIABETES MELLITUS (enzymology); HEPATITIS (enzymology); HUMAN; KIDNEY FAILURE, CHRONIC (enzymology); METHODS; PANCREATITIS (enzymology).

**Lorenz K**

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderaerztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

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OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS. Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592  
ANIMAL EXPERIMENTS; BLOOD SUGAR; BODY WEIGHT; CATTLE (physiology); DAIRYING (methods); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FERTILITY; LACTATION; LIPIDS (analysis); MILK (analysis); PREGNANCY.

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ANIMAL EXPERIMENTS (analysis); CARBAMAZEPINE (therapeutic use); CASE REPORT; DIABETIC NEUROPATHIES (diagnosis, drug therapy); HUMAN; MALE; MIDDLE AGE; PROCAINE (therapeutic use); RATS.

**Lowder SC**

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ADRENAL MEDULLA (physiopathology); BLOOD SUGAR; CATECHOLAMINES (secretion); HUMAN; HYDROCORTISONE (blood); HYPERTENSION (blood, enzymology, physiopathology); RENIN (blood); THEOPHYLLINE (pharmacodynamics).

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MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

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[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCODERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE] Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologia* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

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INFLUENCE OF HYPERGLYCAEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS. Markiewicz K, Lukin M *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

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ACIDOSIS, DIABETIC (diagnosis, etiology, prevention & control); ATTITUDE TO HEALTH; CHILD; COUNSELING; DIABETES MELLITUS, JUVENILE (complications, diet therapy); DIETETICS; HOSPITAL READMISSION; HUMAN; KETOSIS, DIABETIC (prevention & control); NUTRITION; PARENT-CHILD RELATIONS; PATIENTS (education); SICK ROLE.

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ACIDOSIS, DIABETIC (etiology, prevention & control); ADOLESCENCE; ATTITUDE TO HEALTH; CHILD; COUNSELING; DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (complications); DIETETICS; GROUP PROCESSES;

HOSPITALIZATION; HUMAN; LEARNING; PARENT-CHILD RELATIONS; PATIENTS (education); SICK ROLE.

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PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arnep P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242  
ADULT; CASE REPORT; DIABETES MELLITUS (surgery); GRAFT REJECTION; HUMAN; LIGATION; MALE; PANCREAS (transplantation); PANCREATIC DUCTS (surgery); TRANSPLANTATION, HOMOLOGOUS (transplantation).

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[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Holzl VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

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PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES. Martin FJ, MacDonald RC *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

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HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81  
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(diagnosis); BLOOD SUGAR (analysis); DIAGNOSIS, DIFFERENTIAL; FEMALE; HIRSUTISM (diagnosis, blood, etiology); HUMAN; HYDROCORTISONE (blood); MENSTRUATION; OVARIAN DISEASES (diagnosis); TESTOSTERONE (blood); VAGINAL SMEARS; 17-KETOSTEROIDS (urine); 17-HYDROXYCORTICOSTEROIDS (urine); 17-KETOSTEROIDS (urine).

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**ALKALINE PHOSPHATASE (metabolism); ANIMAL EXPERIMENTS; ANOXIA (complications); ANTIPYRINE (metabolism); ASPARTATE AMINOTRANSFERASE (metabolism); BIOLOGICAL TRANSPORT; GLUCOSE (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); INTESTINAL ABSORPTION; INTESTINAL MUCOSA (metabolism, enzymology, physiopathology); INTESTINAL OBSTRUCTION (physiopathology); INTESTINE, SMALL (physiopathology); LACTATES (metabolism); MITOCHONDRIAL SWELLING; PYRUVATES (metabolism); RATS; SUCCINATE DEHYDROGENASE (metabolism).**

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**ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); CLOFIBRATE (analogs & derivatives, pharmacodynamics); CORONARY CIRCULATION (drug effects); CORONARY DISEASE (drug therapy, metabolism); DOGS; ELECTROPHYSIOLOGY; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; HEART RATE (drug effects); HEART (drug effects); ISOPROTERENOL (pharmacodynamics); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism).**

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ANIMAL EXPERIMENTS; COMPARATIVE STUDY; DISEASE MODELS, ANIMAL; GLUCONEOGENESIS; HUMAN; SHOCK, ENDOTOXIC (metabolism); SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ANIMAL EXPERIMENTS (analysis); CHOLESTEROL, DIETARY; ISLANDS OF LANGERHANS (drug effects); METFORMIN (pharmacodynamics); RABBITS.

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### Park DM

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AGED; BLADDER FISTULA (complications); CASE REPORT; COLONIC DISEASES (complications); DIABETES MELLITUS (complications); DIVERTICULITIS, COLONIC (complications); FISTULA (radiography, surgery); HUMAN; INGUINAL HERNIA (surgery); INTESTINAL FISTULA (complications); MALE; SIGMOID; SKIN DISEASES (complications).

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BICARBONATES (pharmacodynamics); KINETICS; MALE; MEMBRANES (metabolism, drug effects); MITOCHONDRIA, LIVER (metabolism, drug effects); NITROPHENYL PHOSPHATASE (metabolism); NADH, NADPH OXIDOREDUCTASES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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HORMONE (analysis, immunology); MICROSCOPY, ELECTRON; MONOGRAPH (mortality); REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis, immunology); STOMACH (analysis, ultrastructure).

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**THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER**

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**AMIDES; DIFFUSION; ERYTHROCYTES (physiology); HEAT; LECITHINS; LIPOSOMES; MATHEMATICS; MEMBRANES, ARTIFICIAL; PERMEABILITY; UREA.**

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BACTERIAL INFECTIONS (prevention & control); CATHETERIZATION (adverse effects); EDUCATION, NURSING, CONTINUING; FUNGI (isolation & purification); GLYCOSURIA (complications); HUMAN; PARENTERAL FEEDING (adverse effects); PARENTERAL HYPERALIMENTATION (adverse effects); PATIENT CARE TEAM; SEPTICEMIA (etiology, prevention & control); STAPHYLOCOCCUS AUREUS (isolation & purification);

STAPHYLOCOCCUS (isolation & purification); SUBCLAVIAN ARTERY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL EXPERIMENTS; CATTLE; CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DOGS; HYPOTHALAMUS (physiology, analysis); MONOGRAPH; PITUITARY GLAND, ANTERIOR (analysis, physiology); RATS; SECRETORY RATE (drug effects); SOMATOTROPIN RELEASING HORMONE (physiology, isolation & purification); SOMATOTROPIN (biosynthesis, blood).

**Schaffer S**

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95: 112, 1976 (Eng) \*DL/76NOV617

**Schally AV**

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

**Scharff TG**

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Petty AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567  
CARBOHYDRATES (metabolism); GLUCOSE (metabolism); PHILIPPINES; POTASSIUM (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, metabolism); SALICYLATES (pharmacodynamics); TEMPERATURE.

**Schenck RD**

[HEMIPYPTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME (AUTHORS TRANS)] Schenck RD *Z Orthop* 114: 354-60, Jun 76 (Ger) DL/76NOV277  
ABDOMINAL NEOPLASMS (complications); ABNORMALITIES, MULTIPLE (complications); CASE REPORT; ENGLISH ABSTRACT; FEMALE; GERMANY, WEST; GIGANTISM (complications); HUMAN; HYPERTROPHY; HYPOGLYCEMIA (complications); INFANT MORTALITY; INFANT; MACROGLOSSIA (complications); MENTAL RETARDATION (complications); UMBILICAL HERNIA (congenital).

**Scherbakova IA**

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

ANIMAL EXPERIMENTS; AORTA (pathology); ARTERIOSCLEROSIS (blood); ATHEROSCLEROSIS (blood, pathology); CHOLESTEROL (blood); ENGLISH ABSTRACT; HYDROCORTISONE (pharmacodynamics); LIPOPROTEINS (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); RABBITS; TRIGLYCERIDES (blood).

**Scherthaner G**

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Scherthaner G, Ludwig H, Mayr WR, Willvonseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181  
DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); GENES; HISTOCOMPATIBILITY ANTIGENS, HL-A; HUMAN; INSULIN ANTIBODIES (biosynthesis); LINKAGE (GENETICS).

**Schiff D**

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

**Schiott CR**

TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS. Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140  
ADMINISTRATION, ORAL; ADULT; BIGUANIDES (adverse effects); BLOOD SEDIMENTATION; CHLORHEXIDINE (administration & dosage, adverse effects, therapeutic use); CLINICAL RESEARCH;

DENTAL PLAQUE (prevention & control); DRUG EVALUATION; ERYTHROCYTES (drug effects); FEMALE; GLYCOSURIA; HEMOGLOBINS (analysis); HUMAN; KIDNEY (drug effects); LEUKOCYTES (drug effects); LIVER (drug effects); MALE; METHEMOGLOBINEMIA; PROTEINURIA; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

**Schilling PE**

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

**Schillinger E**

METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA). Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381  
ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); DIABETES MELLITUS (metabolism); GLUCONEOGENESIS (drug effects); HAMSTERS; HYPOGLYCEMIC AGENTS (toxicity); INDOLES (pharmacodynamics, toxicity); LIVER GLYCOGEN (metabolism); MALE.

**Schleyer M**

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etrrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seylers Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

**Schmalz H**

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderarzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Schmid-Schonbein H**

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schonbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

BLOOD VISCOSITY; DIABETES MELLITUS (blood); ERYTHROCYTE AGGREGATION; FEMALE; HUMAN; MULTIPLE MYELOMA (blood); PHOTOMETRY; PREGNANCY.

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schonbein H, Mehnert H *Bibl Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

**Schmitt MG Jr**

ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM. Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

ACETIC ACIDS (metabolism); ADULT; BUTYRATES (metabolism); FASTING; FATTY ACIDS, VOLATILE (metabolism); FEMALE; HUMAN; INTESTINAL ABSORPTION; JEJUNUM (metabolism); MALE; MIDDLE AGE; PROPIONATES (metabolism); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WATER (metabolism).



**Schneider V**

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE.** Defetos LJ, Lorenzi M, Bohanon N, Tsalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalakian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**Schneider W**

**REGULATION OF GLYCOCEN METABOLISM IN HUMAN BLOOD PLATELETS.** PP. 107-9. Schneider W *In* Ulatin ON, ed. *Platelets. Amsterdam, Excerpta Medica*, 1975. W3 EX89 no.357 1974. (Eng) \*DL/76NOV410

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); BLOOD PLATELETS (metabolism); GLYCOCEN PHOSPHORYLASE (blood); GLYCOCEN (blood); HUMAN; MONOGRAPH; PLATELET AGGREGATION.**

**Schonfeld G**

**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**ADOLESCENCE; ADULT; APOPROTEINS (blood); BLOOD PROTEIN ELECTROPHORESIS; COMPARATIVE STUDY; DIETARY CARBOHYDRATES; DIETARY FATS (metabolism); ELECTROPHORESIS, DISC; FEMALE; HUMAN; LIPOPROTEINS (blood); LIPOPROTEINS, VLDL (blood); MALE; TIME FACTORS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Schramm M**

**PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE.** Orly J, Schramm M *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

**Schreier-Muccillo S**

**MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES.** Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

**ASCORBIC ACID; BINDING SITES; CALORIMETRY; CHOLESTEROL; ELECTRON SPIN RESONANCE; MATHEMATICS; MEMBRANES, ARTIFICIAL; MOLECULAR CONFORMATION; PERMEABILITY; PHOSPHOLIPIDS; SPIN LABELS; THERMODYNAMICS.**

**Schroeder HR**

**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

**ACETYLGLUCOSAMINIDASE (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BODY WEIGHT; DIETARY CARBOHYDRATES; ENZYME INDUCTION (drug effects); FASTING; GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATE DEHYDROGENASE (biosynthesis); GLUCURONIDASE (metabolism); LIVER (enzymology, drug effects); LYSOSOMES**

**(enzymology, ultrastructure); MALE; ORGAN WEIGHT; PHOSPHOGLUCONATE DEHYDROGENASE (biosynthesis); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Schubart UK**

**CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER.** Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; BINDING SITES; ENZYME ACTIVATION; HAMSTERS; ISLET CELL TUMOR (enzymology); MAGNESIUM (pharmacodynamics); MOLECULAR WEIGHT; NEOPLASMS, EXPERIMENTAL (enzymology); PROTEIN BINDING; PROTEIN KINASE (metabolism, isolation & purification); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

**Schukowski H**

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderaerztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**AGE FACTORS; CHILD; DIABETES MELLITUS, JUVENILE (drug therapy, therapy); DIABETIC COMA (drug therapy, metabolism, therapy); HUMAN; INFUSIONS, PARENTERAL; INSULIN (therapeutic use).**

**Schuller A**

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISON'S DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

**Schulze D**

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

**Schwartz JP**

**EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS.** Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

**Schwarz WA**

**[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM]** Kirchgessner M, Roth HP, Schwarz WA *Z Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

**Schweitzer T**

**[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER - AND ITS INFLUENCE ON THE COURSE OF THE DISEASE]** Schweitzer T *Z Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

**ADOLESCENCE; ADULT; DEPRESSION (etiology); DIABETES MELLITUS (complications); DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (complications); DRIVE; ENGLISH ABSTRACT; FOOD HABITS; GLYCOSURIA (etiology); HUMAN; MIDDLE AGE; PERSONALITY DISORDERS (complications); PROGRAMMED INSTRUCTION; PROJECTIVE TECHNIQS; STRESS, PSYCHOLOGICAL; TIME FACTORS.**

**Scieszkowa M**

**[INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS]** Hankiewicz J, Scieszkowa M *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

**Seed M**

**TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL-5(2,5-XYL-XYLYL) VALERIC ACID THERAPY.** Kissebah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

**Segrest JP**

**PROCEEDINGS: LIPID-PROTEIN INTERACTIONS IN BIOLOGICAL MEMBRANES.** Segrest JP *Z Klin Chem Klin Biochem* 13: 369, Aug 75 (Eng) \*DL/76NOV598

**MEMBRANES, ARTIFICIAL; PHOSPHOLIPIDS; PROTEINS.**

**Schilin J**

**CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE.** Schilin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); AZIDES (pharmacodynamics); CALCIUM (metabolism); CYTOSINE NUCLEOTIDES (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (metabolism); KINETICS; MICE; MICROSOMES (metabolism); NUCLEOTIDES (pharmacodynamics); NUCLEOTIDES, CYCLIC (pharmacodynamics); SUBCELLULAR FRACTIONS (metabolism); SUCROSE (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); TIME FACTORS.**

**Seignalet J**

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

**Seino Y**

**POTENTIATION BY THEOPHYLLINE OF ARGinine-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

**Selam JL**

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

**Selawry HP**

**ISLET CELL TUMORS OF THE PANCREAS.** PP. 183-7. Selawry HP *In* Charyulu KK, Sudarshanam A, ed. *Hormones and cancer*. New York, Stratton, 1976. W3 C162GS 1975h. (Eng) DL/76NOV116

**ADULT; FEMALE; HUMAN; INSULIN (secretion); ISLET CELL TUMOR (diagnosis, secretion, surgery); MALE; MIDDLE AGE; MONOGRAPH (mortality); PANCREATIC NEOPLASMS (diagnosis, secretion, surgery).**

**Sellers EM**

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbeigh

## Semenza G

P. Dolman *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

## Semenza J

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In O Gardos G, Szasz I, ed. Biomembranes structure and function*, Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

ANIMAL EXPERIMENTS; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CELL MEMBRANE (enzymology); GLYCOSIDE HYDROLASES (metabolism); INTESTINE, SMALL (enzymology); KINETICS; MACROMOLECULAR SYSTEMS; MANNITOL (metabolism); MATHEMATICS; MONOGRAPH; PROTEIN BINDING; RABBITS; SPECTRUM ANALYSIS, MASS; SUCRASE (metabolism); SUCROSE (metabolism).

## Sende P

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 384-41s, Jul 76 (Eng) DL/76NOV193

ADULT; CASE REPORT; CESAREAN SECTION; DIABETES INSIPIDUS (blood, drug therapy); FEMALE; FETAL HEART; HUMAN; LABOR; MONITORING SYSTEMS; OXYTOCIN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY IN DIABETES (drug therapy); PREGNANCY; UTERINE CONTRACTION; VASOPRESSIN (therapeutic use).

## Senders RC

LETTER: HAZARDS OF PARENTAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biersvliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545

## Sener A

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CALCIUM (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSE (metabolism); GLYCOLYSIS; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); LACTATES (metabolism); MANNOHEPTULOSE (pharmacodynamics); RATS; THEOPHYLLINE (pharmacodynamics).

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

ANIMAL EXPERIMENTS (analysis); GLUCOSE (metabolism); GLYCOLYSIS; IN VITRO; ISLANDS OF LANGERHANS (metabolism); LACTATES (metabolism); METHODS; MICROCHEMISTRY; RATS.

## Sensi S

CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Sensi S, Capani F *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

ADULT; BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM; HUMAN;

## Diabetes Literature—Author Index

HYPOGLYCEMIA (chemically induced); INSULIN; MALE.

## Serban I

[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT] Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrilu F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

## Serrano-Rios M

HCS REGULATION DURING PREGNANCY. Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

## Setchell BP

THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES. PP. 37-57. Setchell BP *In O Mancini RE, Martini L, ed. Male fertility and sterility*. London, Academic Press, 1974. W3 PR945R v.5 1974. (Eng) \*DL/76NOV416

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BODY FLUIDS (metabolism); CAPILLARY PERMEABILITY; CARBOHYDRATES (metabolism); DRUGS (metabolism); FSH (metabolism); GLUCOSE (metabolism); IONS; LYMPH (metabolism); LH (metabolism); MALE; MONOGRAPH; PREGNENES (metabolism); PROTEINS (metabolism); RETE TESTIS (metabolism); SEMINIFEROUS TUBULES (metabolism); TESTIS (blood supply, metabolism); TESTOSTERONE (metabolism); WATER (metabolism).

## Severina II

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanlov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiya* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

## Sfirleaza V

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirleaza V, Tudor P, Moise T *Rev Ig [Pneumoftiziol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

ADOLESCENCE; ADULT; AGE FACTORS; AGED; ANTITUBERCULAR AGENTS (adverse effects); BODY WEIGHT (drug effects); DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; NUTRITION; TUBERCULOSIS, PULMONARY (complications).

## Sforza V

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

## Shalash BA

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

ADULT; CASE REPORT; CONJUNCTIVA (blood supply); DIABETIC ANGIOPATHIES (pathology); DIABETIC RETINOPATHY (pathology); EYE DISEASES (pathology); FEMALE; HUMAN; MALE; MIDDLE AGE; TIME FACTORS.

## Shapiro FL

A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY

CHRONIC HEMODIALYSIS (CHD). Comty CM, Kjellsen D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

## Shaw JF

LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY. Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

ADULT; CASE REPORT; CHROMOSOME ABERRATIONS; CHROMOSOME MAPPING; CONSANGUINITY; DIABETES MELLITUS (familial & genetic); FEMALE; HAPLOIDY; HL-A; HODGKINS DISEASE (familial & genetic); HUMAN; MALE.

## Shchedrenok VV

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskiaia NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psikhiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

## Shcherbakova IA

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[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

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**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

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**[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS]** Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

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**RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT.** Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

**ADULT; AORTIC ANEURYSM (surgery); AXILLARY ARTERY (surgery); BLOOD VESSEL PROSTHESIS; CASE REPORT; DIABETIC NEPHROPATHIES (surgery); FEMALE; FEMORAL ARTERY (surgery); HUMAN; ILIAC ARTERY (surgery); KIDNEY (blood supply, transplantation); NEPHRECTOMY; TRANSPLANTATION, AUTOLOGOUS.**

**Shrago E**

**RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA.** Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

**Shreeve WW**

**RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

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**Sialy R**

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

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**DIABETIC RETINOPATHY (etiology, therapy); HUMAN; PROGNOSIS.**

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**[ADVANCES IN NEPHROLOGY. KIDNEY FAILURE IN PATIENTS WITH DIABETES MELLITUS]** Sicinski A *Pol Arch Med Wewn* 56: 81-91, Jul 76 (Pol) DL/76NOV208

**DIABETES MELLITUS (complications); HEMODIALYSIS (diagnosis); HUMAN; KIDNEY FAILURE, ACUTE (complications); KIDNEY FAILURE, CHRONIC (complications, therapy);**

**KIDNEY (drug effects); KIDNEY (transplantation); MULTIPLE MYELOMA (complications); SULFAMETHOXAZOLE (adverse effects, therapeutic use); TRANSPLANTATION, HOMOLOGOUS (transplantation); TRIMETHOPRIM (adverse effects, therapeutic use); URINARY TRACT INFECTIONS (drug therapy).**

**Sicolo N**

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT.** Feder-spil G, Udeschini G, De Palo C, Siculo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

**Siess EA**

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

**ACETOACETATES (analysis); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ALLOXAN DIABETES (metabolism); AMMONIUM CHLORIDE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ATRACTYLOSIDE (pharmacodynamics); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); COENZYME A (analysis); COMPARATIVE STUDY; CYTOSOL (metabolism); DIABETES MELLITUS (chemically induced, metabolism); HYDROXYBUTYRATES (analysis); IN VITRO; LIVER (metabolism); MALE; MITOCHONDRIA, LIVER (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); RATS; STARVATION; STREPTOZOTOCIN.**

**Siller WG**

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

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**Simmons R**

**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

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**AGED; ATROPINE (diagnostic use); BARIUM SULFATE (diagnostic use); BUTYLSOPOLAMMONIUM BROMIDE (diagnostic use); COLON (drug effects, radiography); ENEMA; GLUCAGON (diagnostic use); HUMAN; MALE; PARASYMPATHOLYTICS (adverse effects, diagnostic use, pharmacodynamics); PROPANTHELINE BROMIDE (diagnostic use).**

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**ANIMAL EXPERIMENTS; BIRTH WEIGHT; BODY COMPOSITION; BODY WEIGHT; COMPARATIVE STUDY; ENERGY METABOLISM; FATTY ACIDS (metabolism); FETUS (metabolism); GLUCONEOGENESIS; GLUCOSE (metabolism); GLYCOGEN (metabolism); GLYCOLYSIS; GROWTH; HUMAN; INFANT, NEWBORN; KETONES (metabolism); LIPIDS (biosynthesis); MONOGRAPH; OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; PROTEINS (biosynthesis); REVIEW; SHEEP.**

**Sindlerova E**

**[INCIDENCE OF DIABETES IN PRIMARY GLAUCOMA]** Sindlerova E *Cesk Oftalmol* 32: 192-8, Jun 76 (Cze) DL/76NOV29

**CZECHOSLOVAKIA; DIABETES MELLITUS (occurrence); ENGLISH ABSTRACT; FEMALE; GLAUCOMA (complications); HUMAN; MALE; SEX FACTORS.**

**Singer A**

**SURGICAL TREATMENT OF MAL PERFORANS.** Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

**DIABETIC NEUROPATHIES (complications); FEMALE; FOOT DISEASES (surgery); HUMAN; MALE; METATARSUS (surgery); MIDDLE AGE; SHOES; SKIN ULCER (complications, surgery).**

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**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); GLUCOSE TOLERANCE TEST; INSULIN (blood, pharmacodynamics); MALE; MICE; TIME FACTORS.**

**Sinha MK**

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

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**ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN.** Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, physiology); ADIPOSE TISSUE (metabolism); ADULT; CALCIUM (pharmacodynamics); CATTLE; COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (metabolism); HUMAN; HYPOPARATHYROIDISM (metabolism); IN VITRO; LIPIDS (metabolism); MALE; MIDDLE AGE; PARATHYROID GLANDS (physiology); PARATHYROID HORMONE (pharmacodynamics); PEPTIDE FRAGMENTS (pharmacodynamics); PSEUDOHYPOPARATHYROIDISM (metabolism); TISSUE EXTRACTS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

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### Sirakov LM

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ANIMAL EXPERIMENTS; ETHOXYQUIN (pharmacodynamics); GLUCOSE (metabolism); INTESTINAL ABSORPTION (drug effects); JEJUNUM (metabolism); MALE; QUINOLINES (pharmacodynamics); RATS; WATER (metabolism).

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[RESULTS OF SURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS] Fryczkowski M, Skop B *Wiad Lek* 29: 1073-7, 15 Jun 76 (Pol) DL/76NOV272

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ANIMAL EXPERIMENTS (analysis); DISEASE MODELS, ANIMAL; DOGS; DRUG THERAPY, COMBINATION; GLUCOSE (therapeutic use); HYALURONIDASE (therapeutic use); INSULIN (therapeutic use); MAGNESIUM (administration & dosage); METHOXAMINE (therapeutic use); MYOCARDIAL INFARCT (prevention & control); NECROSIS (prevention & control); POTASSIUM (administration & dosage); TROMETHAMINE (therapeutic use).

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ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CATS; DENERVATION; ENERGY METABOLISM; ENGLISH ABSTRACT; FEMALE; FEMORAL ARTERY (metabolism, innervation); GLYCOLYSIS; KREBS CYCLE; MALE; PENTOSE (metabolism); TIME FACTORS.

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ADOLESCENCE; ADULT; AMINOACIDURIA, RENAL (familial & genetic); CASE REPORT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications); FANCONI SYNDROME (familial & genetic); FEMALE; GENES, DOMINANT; GLYCOSURIA (complications); HUMAN; HYPOPHOSPHATEMIA, FAMILIAL (complications); INFANT; KIDNEY TUBULES (physiopathology); MALE; MIDDLE AGE; OSTEOMALACIA (complications, familial & genetic); PEDIGREE; PROGNOSIS; PROTEINURIA (complications).

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AMBULATORY CARE; AUSTRALIA; COMMUNITY HEALTH SERVICES; DELIVERY OF HEALTH CARE; DIABETES MELLITUS (therapy); EDUCATION, MEDICAL, UNDERGRADUATE; HUMAN; SOCIAL SERVICE.

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A SYSTEM FOR REPORTING ANALYTICAL RESULTS ACCORDING TO THE ACTUAL LEVEL OF THE TESTS EXACTITUDE. Sobolewski G *Clin Biochem* 8: 409-14, Dec 75 (Eng) \*DL/76NOV647

BLOOD SUGAR (analysis); CHEMISTRY, CLINICAL (methods); EVALUATION STUDIES; MATHEMATICS.

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ACIDOSIS; ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BRAIN (metabolism); CARBON MONOXIDE POISONING (metabolism); CARBOXYHEMOGLOBIN (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; HEMOGLOBINS (metabolism); LACTATES (metabolism); PYRUVATES (metabolism); RATS; TIME FACTORS.

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INFLUENCE OF FUNCTIONAL ACTIVITY ON LOCAL CEREBRAL GLUCOSE UTILIZATION. PP. 385-8. Sokoloff L, *In: Ingvar DH, Lassen NA, ed. Brain work: the coupling of function metabolism and blood flow in the brain. Copenhagen, Munksgaard, 1975. W3 AL36 1974b. (Eng) \*DL/76NOV398*

ANIMAL EXPERIMENTS; AUTORADIOGRAPHY; DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); FACIAL NERVE (metabolism); GENICULATE GANGLION (metabolism, physiology); GLUCOSE (metabolism); LIGHT; MONKEYS;



MONOGRAPH; RATS; RETINA (physiology); SUPERIOR COLLICULUS (metabolism, physiology); VISUAL CORTEX (metabolism, physiology).

**Sokolov GV**

[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOTRANSFORMATION ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE] Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

ACIDS (metabolism); ALCOHOL, ETHYL (metabolism); CANDIDA (metabolism); CITRATES (metabolism); CYTOCHROME C (metabolism); CYTOCHROMES (metabolism); ELECTRON TRANSPORT; ENGLISH ABSTRACT; GLUCOSE (metabolism); KETOGLUTARIC ACIDS (metabolism); KREBS CYCLE; MALATES (metabolism); OXIDATION-REDUCTION; OXYGEN CONSUMPTION; SUCCINATES (metabolism).

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STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremelin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

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ABNORMALITIES (etiology, mortality); ABNORMALITIES, DRUG-INDUCED; ADULT; AGE FACTORS; ANENCEPHALUS (occurrence); BONE AND BONES (abnormalities); CHILD; DIABETES MELLITUS (classification); FEMALE; FETAL DEATH (etiology); HEART DEFECTS, CONGENITAL (occurrence); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); INFANT MORTALITY; INFANT, NEWBORN; PREGNANCY IN DIABETES (complications); PREGNANCY; SPINA BIFIDA (occurrence).

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ALLOSTERIC REGULATION; ENZYME ACTIVATION (drug effects); ESCHERICHIA COLI (enzymology); GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATES (pharmacodynamics); GLYCERIN (pharmacodynamics); GLYCOLYSIS; HEXOKINASE (metabolism); HEXOSEDIPHOSPHATES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); MONOGRAPH; PERMEABILITY; PHOSPHOENOLPYRUVATE (pharmacodynamics); PHOSPHOFRUCTOKINASE (metabolism); SACCHAROMYCES CEREVISIAE (enzymology); TOLUENE (pharmacodynamics).

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CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaise WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

ANIMAL EXPERIMENTS (analysis); CALCIUM (antagonists & inhibitors); DOSE-RESPONSE RELATIONSHIP; DRUG; DRUG INTERACTIONS; GLUCOSE (pharmacodynamics); INSULIN (secretion); IPROVERATRIL (antagonists & inhibitors, pharmacodynamics); ISLANDS OF LANGERHANS (cytology, drug effects); PANCREAS; PERFUSION; RATS; STIMULATION, CHEMICAL; THEOPHYLLINE (pharmacodynamics).

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[EXPEDIENCY OF STUDYING MULTIPLE CAUSES OF DEATH] Sorokin ES *Vrach Delo* 96-9, Dec 75 (Rus) DL/76NOV271

ADULT; AGED; ALCOHOLISM (mortality); CARDIOVASCULAR DISEASES (mortality); COAL MINING; DIABETES MELLITUS (mortality); ENGLISH ABSTRACT; GASTROINTESTINAL DISEASES (mortality); HUMAN; LUNG DISEASES (mortality); MIDDLE AGE; MORTALITY; NEOPLASMS (mortality); UKRAINE.

**Sothy SP**

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY. Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

**Sotolova O**

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkuka J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

**Spahn U**

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderaerztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Spannhake EB**

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

**Speirs RD**

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETORY

SYSTEM. Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

**Spellacy WN**

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CHOLESTEROL (blood); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (metabolism); NORGESTREL (pharmacodynamics); TRIGLYCERIDES (blood).

**Spencer HW**

ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT. Spencer HW, Yarger WE, Robinson RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

ANIMAL EXPERIMENTS (analysis); DIET; FEMALE; GLOMERULAR FILTRATION RATE; INSULIN (metabolism); KIDNEY FAILURE; ACUTE (etiology); KIDNEY (pathology); OXONIC ACID (administration & dosage, pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URIC ACID (administration & dosage, blood, pharmacodynamics).

**Spitzer JJ**

MYOCARDIAL SUBSTRATE UTILIZATION IN ANAPHYLACTIC SHOCK. Spitzer JJ *Proc Soc Exp Biol Med* 151: 28-31, Jan 76 (Eng) \*DL/76NOV566

ANAPHYLAXIS (metabolism, physiopathology); ANIMAL EXPERIMENTS; BLOOD PRESSURE; CARBON DIOXIDE (metabolism); CARDIAC OUTPUT; DOGS; ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (metabolism); HEART RATE; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PHILIPPINES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

**Stacher G**

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

ADULT; BLOOD SUGAR (metabolism); BLOOD; GASTRIC JUICE (secretion); GASTRIN (blood); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); MALE; OSMOLAR CONCENTRATION; TIME FACTORS.

**Stachow A**

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphilis (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

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SINGLE FIBRE ELECTROMYOGRAPHY FOR MOTOR UNIT STUDY IN MAN. PP. 79-92. Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhke H In: *Shahani M, ed. The motor system: neurophysiology and muscle mechanisms*. Amsterdam, Elsevier, 1976. WE 102 M919 1974. (Eng) DL/76NOV130

ACTION POTENTIALS; AMYOTROPHIC LATERAL SCLEROSIS (physiopathology); ELECTRIC NEUROPATHIES (physiopathology); ELECTROMYOGRAPHY (methods); FINGERS; HUMAN; MONOGRAPH (mortality); MOTOR NEURONS (physiology); MUSCLE

Stanescu J

CONTRACTION; MUSCLES (innervation, physiology, physiopathology); MUSCULAR ATROPHY (physiopathology); MYASTHENIA GRAVIS (diagnosis); NERVE REGENERATION; NEURAL TRANSMISSION; NEUROMUSCULAR DISEASES (physiopathology); NEUROMUSCULAR JUNCTION (physiology); UREMIA (physiopathology).

Stanescu J

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgovate C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

Stankiewicz Z

[MAGNESIUM IN BIOLOGY AND MEDICINE] Opieska-Blauth J, Stankiewicz Z, Kulesza S *Postepy Hig Med Dosw* 29: 665-717, Nov-Dec 75 (Pol) [118] \*DL/76NOV563

Stanley CA

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204  
BLOOD SUGAR; CASE REPORT; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROXYBUTYRATES (blood); HYPERINSULINISM (blood, complications, diagnosis); HYPOGLYCEMIA (etiology); INFANT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (diagnosis); INSULIN (blood); MALE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

Starkova NT

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

ADRENAL GLAND HYPERFUNCTION (diagnosis, physiopathology); ADRENAL GLANDS (physiopathology); CUSHINGS SYNDROME (diagnosis); DEXAMETHASONE (diagnostic use); DOPA (diagnostic use); ENGLISH ABSTRACT; HUMAN; INSULIN (diagnostic use); METYRAPONE (diagnostic use).

Stary HC

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Stary HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

Stefani P

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

Steffes MW

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

Stegink LD

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Witte MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

Stein TP

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskiw MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

AMINO ACIDS (blood, urine); AMMONIA (urine); AMMONIUM CHLORIDE (administration & dosage); ASPARTIC ACID (administration & dosage); GLYCINE (administration & dosage); HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UREA (urine).

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CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlke H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS. Terris S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlke H *In Reich E, et al., ed. Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129*

AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BINDING SITES; CARBOXYPEPTIDASES (metabolism); CHEMISTRY; HUMAN; INSULIN (biosynthesis); MONOGRAPH (mortality); PANCREAS (metabolism); PEPTIDE HYDROLASES (metabolism); PROINSULIN (metabolism); PROTEIN CONFORMATION; PROTEIN PRECURSORS (metabolism); REVIEW; SPECIES SPECIFICITY; TIME FACTORS; TRYPSIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY. Juler GL, Dagradi AE, Stempien SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

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SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkuka J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

Sterling N

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL.] Lindbjerg IF, Christoffersen EM, Kuusisto A, Lodahl K, Sagild U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

Sterling WA

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling

WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

Stewart DA

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

Stewart IM

ESOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS. Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

DIABETES MELLITUS (physiopathology); DRUG HYPERSENSITIVITY; ESOPHAGOGASTRIC JUNCTION (drug effects, physiopathology); ESOPHAGUS (physiopathology, radiography); FEMALE; GASTROINTESTINAL MOTILITY (drug effects); HUMAN; MALE; MANOMETRY; METHACHOLINE COMPOUNDS (pharmacodynamics); MIDDLE AGE; VAGUS NERVE (physiopathology).

Stewart JT

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

Stewart TC

EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648  
BILIRUBIN (analysis); BLOOD SUGAR (analysis); COMPARATIVE STUDY; CREATININE (analysis); EVALUATION STUDIES; HEXOKINASE (metabolism); HUMAN; REAGENT STRIPS; URIC ACID (analysis).

Stock AL

THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET. Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

Stoffel W

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler's Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504  
BINDING SITES; CELL MEMBRANE (analysis); ESCHERICHIA COLI; FATTY ACIDS; FLUORESCENT DYES; LIPOSOMES; MOLECULAR CONFORMATION; MOLECULAR MODELS; PHOSPHATIDYL CHOLINE; PHOSPHATIDYL ETHANOLAMINE; PHOSPHOLIPIDS; PROTEIN BINDING; PROTEIN CONFORMATION; PROTEINS; SPECTROMETRY, FLUORESCENCE; TEMPERATURE.

Stothart P

TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE. Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

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THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

ACTION POTENTIALS (drug effects); ADRENAL CORTIX HORMONES (pharmacodynamics); ANIMAL EXPERIMENTS; BEHAVIOR, ANIMAL (drug effects); CASTRATION; CENTRAL NERVOUS SYSTEM (drug effects); CORTICOTROPIN (pharmacodynamics); DRUG IMPLANTS; FEMALE; HORMONES (pharmacodynamics); HUMAN; MALE; NERVOUS SYSTEM (drug effects, growth & development); PEPTIDES (pharmacodynamics); PERIPHERAL NERVES (drug effects); RATS; SEX HORMONES (pharmacodynamics); SEX MATURATION; STEROIDS (pharmacodynamics); SPECIAL LIST REPRODUCTION; THYROXINE (pharmacodynamics).

## Strohfeldt P

[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL.) Strohfeldt P *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

BRADYCARDIA (etiology); BRONCHIAL NEOPLASMS (complications, diagnosis, metabolism); CASE REPORT; CORTICOTROPIN (biosynthesis); CUSHINGS SYNDROME (diagnosis, etiology); DIAGNOSTIC ERRORS; ENGLISH ABSTRACT; HUMAN; HYPOKALEMIA (etiology); MALE; MIDDLE AGE; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES; PREDIABETIC STATE (etiology); STOMACH ULCER (etiology).

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DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Stary HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

ANIMAL EXPERIMENTS; AORTA (metabolism, pathology, ultrastructure); CAROTID ARTERIES (pathology); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (blood); CORONARY VESSELS (pathology, ultrastructure); DIET, ATHEROGENIC; DISEASE MODELS, ANIMAL; FATTY STREAK, ARTERIAL (pathology, metabolism); MACACA; MALE; MONKEYS; REVIEW; RHESUS MONKEYS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

## Stucki JW

REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE. Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; CITRATES (metabolism, pharmacodynamics); CREATINE (pharmacodynamics); MALATES (metabolism); MEMBRANES (metabolism); MITOCHONDRIA, LIVER (metabolism, drug effects); PHILIPPINES; PYRUVATES (metabolism); RATS.

## Suda M

CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE. Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

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RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

ADENINE NUCLEOTIDE TRANSLOCASE (antagonists & inhibitors); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ATRACTYLOSIDE (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); COENZYME A (pharmacodynamics); GUINEA PIGS; KINETICS; MALE; MITOCHONDRIA, MUSCLE (metabolism, drug effects); MYOCARDIUM; NUCLEOTIDYLTRANSFERASES (antagonists & inhibitors); PHOSPHOENOLPYRUVATE (metabolism, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

## Sulaiman WR

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

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POSSIBLE INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE. PP. 115-25. Sullivan AC, Triscari J *Ino Novin D et al., ed. Hunger & basic mechanisms and clinical implications. New York, Raven Press, 1975. W1 102 H936 1975.* (Eng) \*DL/76NOV407

ANIMAL EXPERIMENTS; APPETITE (drug effects); CARBON (metabolism); CITRATES (pharmacodynamics); DIETARY CARBOHYDRATES (metabolism); EATING (drug effects); FEMALE; LIVER GLYCOGEN (biosynthesis); MONOGRAPH; RATS.

## Sullivan L

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; DIET, REDUCING; ENERGY METABOLISM; FEMALE; HUMAN; HYDROCORTISONE (metabolism); HYPERPLASIA; INSULIN (blood); MALE; MIDDLE AGE; MOTIVATION; NOREPINEPHRINE (urine); OBESITY (metabolism, rehabilitation, therapy); OXYGEN CONSUMPTION; PHYSICAL EDUCATION AND TRAINING; PHYSICAL FITNESS; SOMATOTROPIN (metabolism).

## Sullivan SN

GASTROINTESTINAL HORMONES. Sullivan SN *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

CHOLECYSTOKININ; DIAGNOSIS, DIFFERENTIAL; DIARRHEA; ENDOCRINE GLANDS (physiology); ESOPHAGOGASTRIC JUNCTION; GASTRIN; GASTROINTESTINAL HORMONES (deficiency); GASTROINTESTINAL SYSTEM (metabolism); HUMAN; HYPOGLYCEMIA; INTESTINAL DISEASES (etiology); INTESTINE, LARGE (metabolism); PANCREAS (metabolism); PEPTIC ULCER (metabolism); PROSTAGLANDINS; PYLORUS; SECRETIN; SYNDROME; ZOLLINGER-ELLISON SYNDROME (diagnosis).

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DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED. Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

## Sundberg DK

THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENTEROTOXINS (pharmacodynamics); FSH (secretion); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); HYPOTHALAMUS (physiology); IN VITRO; LH (secretion); LH-FSH RELEASING HORMONE (pharmacodynamics); MALE; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (metabolism, secretion, drug effects); PITUITARY HORMONES, ANTERIOR (secretion); POTASSIUM (pharmacodynamics); PROLACTIN (secretion); RATS; SOMATOTROPIN (secretion); THEOPHYLLINE (pharmacodynamics); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

## Surinov BP

[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

ADIPOSE TISSUE (enzymology); ALKALINE PHOSPHATASE (metabolism, blood); ANIMAL EXPERIMENTS; ARYL SULFATASES (metabolism, blood); CARBOXYLIC ESTER HYDROLASES (metabolism, blood); ENGLISH ABSTRACT; ISOENZYMES (metabolism); PANCREATECTOMY; RATS; SULFATASES (metabolism).

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SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

## Suzuki K

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 38s-41s, Jul 76 (Eng) DL/76NOV193

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BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

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MOLECULAR TRANSPORT IN THYROID SLICES. Paiva M, Sande JV, Swilens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

## Swinnen ME

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neeley WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

## Syvalahti E

### Syvalahti E

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295  
BLOOD SUGAR (metabolism); ESTROGENS (pharmacodynamics, therapeutic use); FEMALE; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood); MENOPAUSE; MIDDLE AGE; OBESITY (blood); SOMATOTROPIN (blood); TOLBUTAMIDE (administration & dosage, pharmacodynamics).

### Syzgantseva LM

**[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS]** Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

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(pharmacodynamics); SUCCINATE DEHYDROGENASE (biosynthesis).

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**[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION]** Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

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**(PSYCHOLOGY) (drug effects); DIABETES MELLITUS, JUVENILE (complications); FEMALE; HEARING DISORDERS (complications); HUMAN; INTERNAL-EXTERNAL CONTROL; MALE; PERSONAL SATISFACTION; PERSONALITY INVENTORY; PROJECTIVE TECHNIQS; SELF CONCEPT; SEX FACTORS; SOCIAL ADJUSTMENT; SOCIAL DESIRABILITY.**

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**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

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**ADULT; DIABETES MELLITUS (complications, drug therapy, mortality); FEMALE; HUMAN; INSULIN (therapeutic use); KIDNEY FAILURE, CHRONIC (etiology, surgery); KIDNEY FAILURE, CHRONIC (mortality); KIDNEY (transplantation); MALE; MIDDLE AGE; TISSUE SURVIVAL.**

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ACCLIMATIZATION; ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; COLD; DIETARY FATS; FATTY ACIDS (metabolism, blood); LIPIDS (metabolism); MALE; QUAIL (metabolism); TRIGLYCERIDES (metabolism).

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ADIPOSE TISSUE (enzymology); AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; CARBOXYLIC ESTER HYDROLASES (isolation & purification); CHLOROMERCURIBENZOATES (pharmacodynamics); DITHIOTHREITOL (pharmacodynamics); KINETICS; MALE; MOLECULAR WEIGHT; MONOACYLGLYCEROL LIPASES (isolation & purification, metabolism); PROTEIN CONFORMATION; RATS; SURFACE-ACTIVE AGENTS.

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ANIMAL EXPERIMENTS; CALCIUM (pharmacodynamics); EGTA (pharmacodynamics); HEART (drug effects); KINETICS; MICE; MITOCHONDRIA, MUSCLE (metabolism, drug effects); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PERMEABILITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirleaza V, Tudor P, Moise T *Rev Ig*

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ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT (drug effects); CALCIUM (metabolism); IN VITRO; MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL SWELLING; RATS; THYROXINE (pharmacodynamics); TISSUE EXTRACTS (pharmacodynamics).

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ADRENAL GLANDS (physiology, metabolism); ADRENAL MEDULLA (physiology); ANIMAL EXPERIMENTS; CATECHOLAMINES (physiology); CORTICOSTERONE (blood); FATTY ACIDS, NONESTERIFIED (blood); MALE; NICOTINE (pharmacodynamics); RATS; STRESS (physiopathology).

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ADOLESCENCE; ADULT; AMNIOTIC FLUID (analysis); BLOOD SUGAR (analysis); CASE REPORT; CHILD; DIABETES MELLITUS (therapy); FEMALE; FETAL DISTRESS (diagnosis); GLUCOSE (metabolism); HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (prevention & control); INSULIN (therapeutic use); OXYTOCIN (administration & dosage); PLACENTAL LACTOGEN (urine); PREGNANCY IN DIABETES (diet therapy, drug therapy, therapy); PREGNANCY; ULTRASONICS (diagnostic use).

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ABORTION, THERAPEUTIC; ACUTE DISEASE; ALANINE (metabolism); AMINO ACIDS (metabolism); AMNIOTIC FLUID (metabolism); ARGININE (metabolism); BLOOD SUGAR (metabolism); FEMALE; GLUCONEOGENESIS; HUMAN; INSULIN (blood); LIVER (metabolism); NITROGEN (urine); PLACENTAL LACTOGEN (blood); PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY; PROLACTIN (blood); SOMATOTROPIN (blood); STARVATION (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; FATTY ACIDS (metabolism); FATTY LIVER (metabolism); IN VITRO; LIVER CIRRHOSIS, EXPERIMENTAL (metabolism); MITOCHONDRIA, LIVER (metabolism); RATS.

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ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DOGS; HYPOTHERMIA, INDUCED; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PHOSPHORUS (metabolism); POTASSIUM (metabolism); PYRUVATES (metabolism); SODIUM (metabolism).

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ACIDOSIS (etiology); CASE REPORT; GLUCOSE (administration & dosage, adverse effects); HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; LACTATES (blood); MALE; PARENTERAL FEEDING.

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ADENOSINE TRIPHOSPHATASE (blood); BIOLOGICAL TRANSPORT; BLOOD PROTEINS (analysis); CELL MEMBRANE (metabolism, drug effects); CHOLESTEROL; ENZYME ACTIVATION (drug effects); ERYTHROCYTES (metabolism); FATTY ACIDS (metabolism); HUMAN; LIPIDS (blood); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MONOGRAPH; PHOSPHOLIPASE; PHOSPHOLIPIDS (blood); POTASSIUM (pharmacodynamics); PROTEIN BINDING; PROTEINS (analysis); REVIEW; SODIUM (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

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AGED; ASPARTATE AMINOTRANSFERASE (blood); CREATINE KINASE (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (physiopathology, blood); PITUITARY GLAND (physiopathology); THYROID GLAND (physiopathology); THYROTROPIN (blood); THYROXINE (blood); TIME FACTORS; TRIIODOTHYRONINE (blood).

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CIRCADIAN RHYTHM; COMPUTERS, DIGITAL; HOMEOSTASIS; HORMONES (physiology); LH (blood); MATHEMATICS; MODELS, BIOLOGICAL; MONOGRAPH; RECEPTORS, HORMONE.

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[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; ARTERIES (pathology); ARTERIOSCLEROSIS (etiology, pathology); CHILD; CHILD, PRESCHOOL; CONNECTIVE TISSUE (pathology); FATTY STREAK, ARTERIAL (pathology, complications); FEMALE; HUMAN; INFANT; MALE; MIDDLE AGE.

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ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

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ADULT; CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERGLYCEMIA (complications, etiology); HYPOGLYCEMIA (chemically induced, complications); HYPOPITUITARISM (complications); INSULIN RESISTANCE; INSULIN (adverse effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL EXPERIMENTS (analysis); ENDOPLASMIC RETICULUM; ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (drug effects, ultrastructure); NITRITES (poisoning); RABBITS; SODIUM (poisoning).

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[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

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ALCOHOL, ETHYL (metabolism); ALCOHOLISM (blood, complications); CHRONIC DISEASE; DIABETES MELLITUS (complications, metabolism); GOUT (complications, metabolism); HUMAN; HYPERLIPIDEMIA (complications, metabolism); LACTATES (blood); METABOLIC DISEASES (complications); REVIEW.

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BLOOD VISCOSITY; DIABETES MELLITUS (blood, physiopathology); ERYTHROCYTE AGGREGATION; HUMAN; MICROCIRCULATION (physiopathology); RHEOLOGY.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (cytology, metabolism); ANIMAL EXPERIMENTS; CORTICOTROPIN (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (biosynthesis); LIPIDS (metabolism); MALE; OSMOLAR CONCENTRATION; RATS; STIMULATION, CHEMICAL; SUCROSE (pharmacodynamics).

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ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; CAPILLARIES (anatomy & histology); CELLS, CULTURED; CELLULAR INCLUSIONS (ultrastructure); ENDOTHELIUM (cytology, physiology); EPIDIDYMIS (blood supply); IN VITRO; INTERCELLULAR JUNCTIONS (ultrastructure); PINOCYTOSIS; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADULT; AMINO ACIDS (blood); BLOOD SUGAR (metabolism); DIABETES MELLITUS (metabolism, physiopathology); DIETARY PROTEINS; FATTY ACIDS, NONESTERIFIED (metabolism); GLYCERIN (blood); HUMAN; KETO ACIDS (metabolism); LACTATES (blood, metabolism); LEG (blood supply); MALE; MUSCLES (metabolism); NITROGEN (metabolism); OXYGEN CONSUMPTION; REGIONAL BLOOD FLOW.

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ADOLESCENCE; ADULT; AGED; BODY COMPOSITION; DIABETES MELLITUS (diet therapy, drug therapy, metabolism); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); MALE; MIDDLE AGE; NITROGEN (analysis, metabolism); POTASSIUM (analysis, metabolism).

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ADULT; CHILD; CHOLESTEROL (blood); DIABETES MELLITUS (blood); FEMALE; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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ACUTE DISEASE; GLUCAGON (therapeutic use); HUMAN; PAIN (drug therapy); PANCREATITIS (drug therapy).

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ALLOSTERIC REGULATION; ALLOSTERIC SITE; BINDING SITES; CATIONS; MONOVALENT; ENZYME ACTIVATION (drug effects); ESCHERICHIA COLI (enzymology, drug effects); FRUCTOSEPHOSPHATES (pharmacodynamics); GUANINE NUCLEOTIDES (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); HEXOSEDIPHOSPHATES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHENOLPYRUVATE (pharmacodynamics); PROTEIN BINDING; PYRUVATE KINASE (metabolism).

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ANIMAL EXPERIMENTS (analysis); BUTYRATES (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (blood, pharmacodynamics); MUSCLE CONTRACTION (drug effects); RUMEN (drug effects, physiology); SHEEP.

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ADULT; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; MALE; OLIGOSACCHARIDES (diagnostic use); PEPTIC ULCER (surgery); POSTGASTRECTOMY SYNDROMES (metabolism).

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ADOLESCENCE; ARGININE (administration & dosage); CASE REPORT; ESTROGENS (blood); FEMALE; FSH (blood); HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood); LH (blood); PITUITARY GLAND (physiology); PROGESTERONE (blood); PROLACTIN (blood); PSEUDOPREGNANCY; RADIOIMMUNOASSAY; SOMATOTROPIN (blood); THYROTROPIN (blood).

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ACETYL COA CARBOXYLASE (metabolism); AGING; ANIMAL EXPERIMENTS (analysis); ATP CITRATE LYASE (metabolism); BODY WEIGHT; FATTY ACID SYNTHETASE COMPLEX (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); INSULIN (blood); LIVER (enzymology, growth & development); MALATE DEHYDROGENASE (metabolism); MALE; MICE; MICE, OBESE (metabolism); ORGAN WEIGHT; PHOSPHOGLUCONATE DEHYDROGENASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AMINO ACIDS (blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); FEMALE; FETUS; HOMEOSTASIS; INTUBATION; MATERNAL-FETAL EXCHANGE; NUTRITION; NUTRITIONAL REQUIREMENTS; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; PREGNANCY; SHEEP; UTERUS (surgery).

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AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIABLE YELLOW OBESE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

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Y. Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

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THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET. Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

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AGE FACTORS; AGED; CARBENICILLIN (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; OTITIS EXTERNA (complications, diagnosis, etiology); PSEUDOMONAS AERUGINOSA (isolation & purification); PSEUDOMONAS INFECTIONS (drug therapy).

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THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaia RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

ADOLESCENCE, CHILD; CHILD, PRESCHOOL; DIABETIC RETINOPATHY (blood); FEMALE; GLAUCOMA (blood); HUMAN; MALE; OXYGEN CONSUMPTION; OXYGEN (blood).

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### Zayed A

THE MANAGEMENT OF DIABETIC TRACTION DETACHMENT. Zayed A *Bull Ophthalmol Soc Egypt* 68: 409-13, 1975 (Eng) DL/76NOV16

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### Zenovko EI

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CLINICAL TYPES OF DIABETES MELLITUS. Zimmet P *Aust Fam Physician* 5: 228-31, Mar 76 (Eng) DL/76NOV343

ADOLESCENCE; DIABETES MELLITUS (classification); DIABETES MELLITUS (diagnosis); DIABETES MELLITUS, JUVENILE (diagnosis); HUMAN.

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ADULT; ANIMAL EXPERIMENTS (analysis); ARTERIOVENOUS SHUNT, SURGICAL (methods); CAROTID ARTERIES (transplantation); CATTLE; DIABETES MELLITUS (complications); FOLLOW-UP STUDIES; GRAFT REJECTION; HEMODIALYSIS; HUMAN; MIDDLE AGE; TRANSPLANTATION, HETEROLOGOUS.

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INHERITANCE OF DIABETES MELLITUS. Zonana J, Rimoin DL *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

ADULT; AGE FACTORS; ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS, JUVENILE (immunology); DISEASES IN TWINS; GENOTYPE; HL-A; HUMAN; MUTATION; PHENOTYPE; PREDIABETIC STATE (familial & genetic); TWINS, MONOZYGOTIC; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY. Brodskaja NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psikiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

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ADULT; AGED; AXONS; CAPILLARIES (pathology); DENDRITES; DIABETIC RETINOPATHY (diagnosis, pathology); FEMALE; HUMAN; MALE; MIDDLE AGE; RETINAL VESSELS (pathology); STAINS AND STAINING; TIME FACTORS.

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ANIMAL EXPERIMENTS (analysis); CARBOXYPEPTIDASES (metabolism); EDTA (pharmacodynamics); INSULIN (biosynthesis); ISLANDS OF LANGERHANS (drug effects, enzymology); KINETICS; PROINSULIN (metabolism); RATS; REVIEW; TRYPSIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlke H *In: Reich E, et al., ed. Proteases and biological*

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ADULT; BLOOD SUGAR (analysis); FATTY ACIDS (blood); GLYCOLIPIDS (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (blood); KIDNEY FAILURE, CHRONIC (blood, metabolism, therapy); MIDDLE AGE; PERITONEAL DIALYSIS.

### Anonymous

TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY. Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

ADULT; AGED; DIABETES MELLITUS (complications, mortality); FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; GLYCOSURIA (complications, mortality); GLYCOSURIA, RENAL (complications); HUMAN; MIDDLE AGE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS. Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) [5] DL/76NOV190

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